

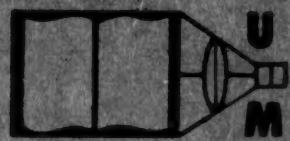
Vol. XXIII

No. 13

Dissertation Abstracts

INDEX TO
AMERICAN DOCTORAL
DISSERTATIONS

1962-1963



UNIVERSITY MICROFILMS, Inc.
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DOCTORAL DISSERTATION SERIES

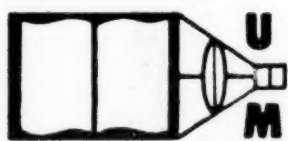
Cooperating Institutions

- | | |
|--|--|
| The University of Akron | University of Missouri |
| University of Alabama | Montana State University |
| The American University | The University of Nebraska (including School of Education) |
| University of Arizona | University of New Hampshire |
| Arizona State University | The University of New Mexico (including School of Education) |
| University of Arkansas | New Mexico State University |
| Auburn University | New School for Social Research |
| Ball State Teachers College | New York University (including School of Education) |
| Université de Bordeaux (France) | The University of North Carolina at Chapel Hill |
| Boston University (including Schools of Education and Theology) | North Carolina State of the University of North Carolina at Raleigh |
| Bowling Green State University | North Texas State University |
| Bradley University | Northwestern University |
| Brandeis University | University of Notre Dame |
| Brigham Young University | The Ohio State University |
| The University of British Columbia (Canada) | Ohio University |
| Brown University | The University of Oklahoma |
| Bryn Mawr College | Oklahoma State University |
| University of California (Berkeley, Davis, Los Angeles, Riverside, San Diego, Santa Barbara and San Francisco) | University of Oregon |
| California Institute of Technology | Oregon State University |
| Carleton University (Canada) | University of the Pacific |
| Case Institute of Technology | Pacific School of Religion |
| The Catholic University of America | University of Pennsylvania |
| Universidad de Chile, S. A. (School of Economics) | The Pennsylvania State University |
| University of Cincinnati (including School of Education) | Philadelphia College of Pharmacy and Science |
| The Claremont Graduate School | University of Pittsburgh |
| Clark University | Polytechnic Institute of Brooklyn |
| Clemson College | Princeton Theological Seminary |
| University of Colorado | Princeton University |
| Colorado State College | Purdue University |
| Colorado State University | University of Redlands |
| Columbia University (including Teachers College) | Rensselaer Polytechnic Institute |
| The University of Connecticut | University of Rhode Island |
| Cornell University (including Cornell University Medical College) | Rice University |
| University of Delaware | The University of Rochester |
| University of Denver | The Rockefeller Institute |
| Drew University | Rutgers - The State University (including School of Education) |
| Duke University | St. Louis University |
| Emory University | University of South Carolina |
| The University of Florida | South Dakota State College |
| The Florida State University | University of Southern California |
| Fordham University (including School of Education) | Southern California School of Theology |
| George Peabody College for Teachers | Southern Illinois University |
| University of Georgia | University of Southern Mississippi |
| The Hartford Seminary Foundation | Stanford University |
| Harvard University (Department of Chemistry) | State University of Iowa |
| University of Hawaii | State University of New York, College of Ceramics at Alfred University |
| University of Houston | State University of New York at Buffalo (including School of Education) |
| Howard University | State University of South Dakota |
| University of Idaho | Stevens Institute of Technology |
| University of Illinois (including University of Illinois at the Medical Center) | Syracuse University |
| Indiana University (including Schools of Education; Health, Phys. Ed., and Rec.; and Music) | Temple University (including School of Education) |
| The Institute of Paper Chemistry, affiliated with Lawrence College | The University of Tennessee |
| Institutum Divi Thomae Foundation | The University of Texas |
| Iowa State University of Science and Technology | Texas A&M University |
| The Johns Hopkins University | Texas Technological College |
| University of Kansas | University of Toronto (Canada) |
| Kansas State University | Tulane University |
| Kent State University | Union Theological Seminary in the City of New York |
| University of Kentucky | University of Utah |
| Université Laval (Canada) | Utah State University |
| Lehigh University | Vanderbilt University |
| Louisiana State University | University of Virginia |
| University of Maine | Virginia Polytechnic Institute |
| Marquette University | Wake Forest College. The Bowman Gray School of Medicine of Wake Forest College. |
| University of Maryland | University of Washington |
| University of Massachusetts | Washington State University |
| University of Melbourne (Australia) | Washington University |
| University of Miami | Wayne State University |
| The University of Michigan | Western Reserve University |
| Michigan State University | Westminster Theological Seminary |
| University of Minnesota | The University of Wisconsin |
| The University of Mississippi (including Medical Center) | Yale University |
| | Yeshiva University (including School of Education and Sue Golding Graduate Division of Medical Sciences) |

INDEX TO AMERICAN DOCTORAL DISSERTATIONS

1962-1963

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THE ASSOCIATION OF RESEARCH LIBRARIES



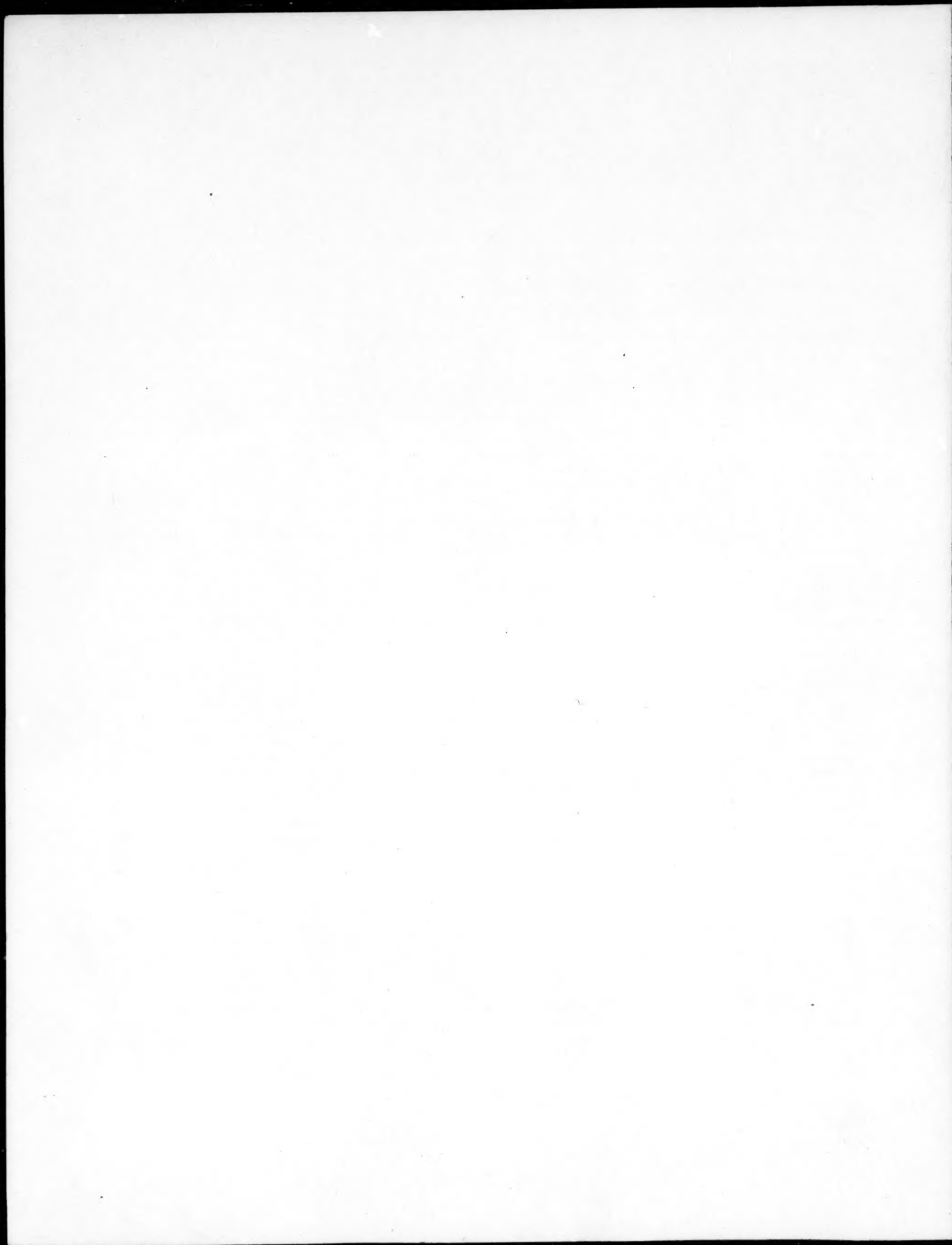
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INTRODUCTION

DISSERTATION ABSTRACTS is a monthly compilation of abstracts of doctoral dissertations submitted to University Microfilms, Inc. by more than 140 cooperating institutions. Some institutions do not send all their doctoral dissertations. Also, the various institutions began using the doctoral dissertation program at different times. For instance, some who entered the program this year decided to publish their earlier dissertations; other schools have used the program for publishing only those dissertations that were ready at the time of entry or later. Only those dissertations which are released to University Microfilms can be abstracted in DISSERTATION ABSTRACTS. Copies of the complete text may be purchased either on microfilm or as enlarged prints.

For the Subject Index, each dissertation is listed under one or more subject headings as assigned by the Library of Congress from an examination of the abstract. Headings used by the Library in its Official Catalog are assigned if an appropriate one has been established; otherwise the headings are derived from the abstract.

Arrangement. Each issue of DISSERTATION ABSTRACTS consists of a principal section, a subject index and an author index. Number 12 is issued in two parts: Part I contains the abstracts, and Part II the cumulated subject and author indexes for issues 1 through 12.

INDEX TO AMERICAN DOCTORAL DISSERTATIONS is a complete listing of all doctoral dissertations accepted by American and Canadian universities. It is compiled from commencement programs issued by the universities and the success of each issue depends on the cooperation of these universities. It includes a number of dissertations which are not included in DISSERTATION ABSTRACTS, as well as a number which will be carried in later issues. This is published on a school-year basis and is arranged by subject categories and institutions. An author index is an integral part of each publication. For further information, please write directly to University Microfilms.

During the academic year 1962-1963, 13,108 doctoral dissertations were reported by American universities. This is an increase of 1,281 over the previous academic year, and again is a record number.

A check of the doctoral degrees granted, by broad subject fields, shows that the percentage of students in the various categories remains fairly constant from year to year. A ten-year summary of degrees granted is given below:

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Philosophy	104	100	96	96	104	123	137	159	158	176
Religion	152	138	140	159	180	184	235	202	238	243
Physical Sciences	2417	2397	2383	2331	2384	2833	2788	3353	3923	4716
Earth Sciences	239	232	413	231	249	285	324	725	764	616
Biological Sciences	2509	2480	2157	2146	2233	2084	2483	1737	1992	2169
Social Sciences	2745	2657	2649	2576	2813	2890	2956	3145	3633	3945
Humanities	834	808	861	824	836	896	1004	1022	1119	1243
Totals	9,000	8,812	8,699	8,363	8,799	9,295	9,927	10,343	11,827	13,108

Table II gives a more detailed distribution.

Following the List of Current University Serial Publications Abstracting Dissertations is Table I, which details the Practices of Publication and Loan of Doctoral Dissertations. Several of the institutions listed began cooperating in the publication of microfilmed dissertations and the abstracting of these in DISSERTATION ABSTRACTS during the year. New participants in the cooperative project are:

University of California (Riverside)
 Université Laval (Canada)
 Wake Forest College. The Bowman Gray School of Medicine of Wake Forest College

Table III gives the distribution of doctoral degrees granted, by university and subject. By comparing the 1962-1963 interests with those of previous years, small shifts in emphasis and the beginnings of trends can sometimes be noticed.

**LIST OF CURRENT UNIVERSITY SERIAL PUBLICATIONS
ABSTRACTING DISSERTATIONS**

- Agricultural and Mechanical College
of Texas See Texas A. & M. University
- University of Arkansas Abstracts of dissertations. v. 1, 1953-1958. (ea. 5 yrs.)
- Bowling Green State University Doctoral abstracts to be included with future volumes of master's
abstracts.
- Brigham Young University Abstracts of theses and dissertations. v. 1, 1958. (annually)
- Case Institute of Technology Research at Case: projects, theses abstracts, faculty publications.
v. 1, 1953. (annually)
- Clark University Dissertations and theses. v. 1, 1953. (annually)
- Clemson Agricultural College Clemson College abstracts of theses. v. 1, 1959-
- The University of Florida Abstracts of doctoral studies in education. v. 1, 1952- (not published
1954)
- The General Theological Seminary . . . Bulletin of The General Theological Seminary, June issue. v. 1, 1950-
- George Peabody College for Teachers . Abstracts of dissertations for the year _____. v. 1, 1951. (annually)
- The George Washington University . . . Summaries of doctoral dissertations. v. 1, 1925-1928.
- Georgia Institute of Technology Abstracts of theses. v. 1, 1953. (biennially)
- Illinois Institute of Technology Publications of Illinois Institute of Technology. v. 1, 1952-
- Indiana University (School of
Education) Studies in education, 19-- (thesis abstract series) v. 1, 1950.
(annually)
- Institute of Paper Chemistry,
affiliated with Lawrence College . . . Abstract bulletin of the Institute of Paper Chemistry. v. 1, 1931.
(monthly)
- Massachusetts Institute of Technology . Abstracts of theses accepted . . . for doctors degree with a list of
titles accepted for the engineers degree and masters degree. v. 1,
1951-
- University of Mississippi Dissertation abstracts published at irregular intervals.
- Mississippi State University Mississippi State University, abstracts of theses. v. 1, 1953-
- University of Missouri Abstracts of *dissertations in education*. v. 1, 1938. (ea. 2 yrs.)
- University of North Dakota Abstracts of doctoral dissertations and masters theses. v. 1, 1955.
(annually)
- Ohio University Abstracts of theses and dissertations. Annually since 1939.
- St. John's University Abstracts of dissertations. v. 1, 1939. (annually)
- Southern Methodist University Abstracts of theses. v. 20 to include doctoral abstracts. (biennially)
- S.U.N.Y., College of Ceramics at
Alfred University State University of New York College of Ceramics at Alfred Univer-
sity, Alfred, N. Y. Monthly progress report. v. 1, 1958.
- S.U.N.Y., College of Forestry
at Syracuse Graduate theses. v. 1, 1955. (ea. 5 yrs.)
- Texas A. & M. University Abstracts of dissertations for the degree of doctor of philosophy.
v. 1, 1940-1955; v. 2, 1956-1962.
- Texas Technological College Theses accepted by Texas Technological College. v. 1, 1956.
- University of Utah Abstracts of doctoral dissertations. v. 1, 1959.
- Utah State University Abstract series—Utah State University, v. 1, 1962. (annually)
- University of Wyoming University of Wyoming publications. v. 1, 1929. (annually)

PUBLICATION, PRESERVATION AND LENDING OF AMERICAN DOCTORAL DISSERTATIONS

The Association of Research Libraries has endorsed publication by microfilm and the publication of an abstract as one means of making dissertations available to scholars and research workers. Publication practices are found in Table I.

Many of the doctoral dissertations written each year are abstracted in *Dissertation Abstracts* and reproduced in full as positive microfilm or as xerographic enlargements printed on paper. Institutions cooperating in this project are listed separately on the inside front cover of *Dissertation Abstracts*. Generally speaking, dissertations of these institutions may be secured direct from University Microfilms.

Graduate schools not requiring the publication of their dissertations will usually lend these on interlibrary loan. Inquiries for such dissertations should be addressed to the holding institution through a reference library.

TABLE I

Practices of Publication and Loan of Doctoral Dissertations, 1962-1963

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Adelphi College	No	No	No	2	Yes	No
Agricultural and Mechanical College of Texas		See Texas A. & M. University.				
University of Akron	No	Yes ¹	No	2	No	
University of Alabama	No	Yes ¹	No	2	Yes	
University of Alaska	No	Yes	No	2	Yes	No
University of Alberta	No	No	No	2	Yes	No
Alfred University		No information received.				
The American University	No	Yes ¹	No	1	Yes ⁴	No
University of Arizona	No	Yes ¹	No	2	No	No
Arizona State University	No	Yes ¹	Yes	2	Yes	No
University of Arkansas	No	Yes ¹	Yes	2	Yes	No
Atlanta University ²³	Yes	Yes	Yes	2	Yes	
Auburn University	No	¹	No	2	Yes	No
Ball State Teachers College ²³	Yes	Yes ¹	No	3	No	No
Baylor University	No	Yes	No	1	Yes	No
Bob Jones University	No		No	2	Yes	
Boston College	No		No	3	Yes	
Boston University, Graduate School	No	No ¹	No	1	No	No
School of Education	No	Yes ¹	Yes ³	3	Yes	No
School of Fine and Applied Arts	Yes		Yes	2	Yes	
School of Nursing	No	No	Yes	2	Yes	No

¹ Cooperates with University Microfilms, Inc., Ann Arbor, Mich. For additional information see "Introduction" in issues of *Dissertation Abstracts*.

² Prior to 1963 only.

³ Not systematically.

⁴ If no microfilm copy available.

⁵ Up to June, 1960; thereafter, no.

⁶ Four copies for engineer dissertations.

⁷ Limited to institutions of higher learning in California.

⁸ Only if O.P.

⁹ Requires microfilm; also, xerography or publication in scholarly journals.

¹⁰ Dissertations may be typescripts or reprints of journal articles. All are then microfilmed.

¹¹ When available.

¹² Prior to 1954; thereafter, no.

¹³ Not enforced.

¹⁴ Prior to 1958; thereafter, no.

¹⁵ Chemistry abstracts only.

¹⁶ Education abstracts only.

¹⁷ Photo copies are available.

¹⁸ Varies by school.

¹⁹ Two copies filed if all parts cannot be micro-filmed.

²⁰ Lends microfilm copies.

²¹ Microfilm and printed copies required.

²² Multilith copies.

²³ Institution has doctorate program but no degrees granted as of June, 1963.

²⁴ To be effective with future candidates.

²⁵ Two copies of Ed.D. dissertations.

²⁶ Or microcard.

²⁷ Available from the research department.

²⁸ Two copies before 1953.

²⁹ Yes, for physical sciences and engineering only.

³⁰ No, for physical sciences only.

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Boston University, School of Theology	No	Yes ¹	No	1	Yes	
Bowling Green State University	No	Yes ¹	Yes	2	No	
Bradley University	No	Yes ¹	No	2	Yes ⁴	No
Brandeis University	Yes	Yes ^{1,9}	No	1	Yes	Yes
Brigham Young University	No	Yes ¹	Yes	4	Yes	No
University of British Columbia	No	No ¹	No	2	Yes	No
Brown University	No	Yes ¹	No	2	Yes	No
Bryn Mawr University	Yes	Yes ¹	No	1		Yes
University of California, Berkeley	No	Yes ¹	No	1	No	No
University of California, Davis	No	No	No	1	Yes ⁵	No
University of California, Los Angeles	No	Yes ¹	No	3 ⁶	Yes ⁷	No
University of California, Riverside	No	¹	No	2	Yes	No
University of California, San Francisco Medical Center	No	Yes	No	1	No ²⁰	No
University of California, Santa Barbara	No	Yes	Yes	2	Yes	
California Institute of Technology	No	No	No	3	Yes	No
Calvin Coolidge College ²³	No	Yes	No	1	Yes	No
Carleton University	No	Yes ¹	No	3	Yes	
Carnegie Institute of Technology	Yes	No	No	2	Yes	Yes
Case Institute of Technology	No	Yes ¹	Yes	2	No	No
The Catholic University of America	No	Yes ¹	Yes	1	No	No ⁸
University of Chicago	No	Yes	No	1	No ¹⁰	
University of Cincinnati	No	Yes ¹	No	2	Yes	No
The City University of New York ²³ Brooklyn College			No information received.			
Hunter College			No information received.			
Claremont Graduate School	No	No ¹	No	2	Yes	No
Clark University	No	Yes ¹	Yes	1	No	
Clarkson College of Technology ²³	No	Yes	No	2	Yes	No
Clemson Agricultural College	No		Yes	1	Yes	
University of Colorado	No	Yes ¹	No	1	No	No
Colorado School of Mines	No	No	No	3	Yes	No
Colorado State College	No	Yes ¹		2	Yes	No
Colorado State University	No	No ¹	No	2	No	No
Columbia University	No	Yes ¹	No	2	Yes	Yes
Columbia University Teachers College	No	Yes ¹	No	2	Yes	Yes ¹¹
Combs College of Music			No information received.			
Concordia Seminary	No	No	No	2	No	No
University of Connecticut	No	Yes ¹	No	2	Yes	No
Cornell University	No	Yes ¹	No	2	Yes ¹²	Yes ¹¹
Cornell University Graduate School of Medical Sciences	Yes	Yes ¹	No	1	No	No
Dallas Theological Seminary	No	No	No	2	Yes	No
University of Delaware	No	Yes ¹	No	2	Yes	No
University of Denver	No	Yes ¹	No	1	Yes	
Drew University	No	¹	No	3	Yes	
The Dropsie College	Yes ¹³	Yes	No	2	Yes	Yes
Duke University (including School of Forestry)	No	Yes ¹	No	2	Yes ¹⁴	Yes ¹¹
Duquesne University	Yes	No	Yes ¹⁵	3	Yes	No
Emory University	No	Yes ¹	No	2	No	No
Fletcher School of Law and Diplomacy	No	No	No	2	Yes	
The University of Florida	No	¹	Yes ¹⁶	2	Yes	No
The Florida State University	No	Yes ¹	No	2	Yes	No
Fordham University	No	Yes ¹	No	2	Yes	
The General Theological Seminary	No		Yes	1	Yes	
George Peabody College for Teachers	No	Yes ¹	Yes	2	Yes	
The George Washington University	No		Yes	3	Yes	
Georgetown University	No	No	No	2	Yes	No
University of Georgia	No	Yes ¹	No	2	Yes	No

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Georgia Institute of Technology	No	No	Yes	3	Yes	No
Georgia State College ²³			No information received.			
Grace Theological Seminary and Grace College			No information received.			
Hahnemann Medical College and Hospital	No		No	1	Yes	No
The Hartford Seminary Foundation	No	Yes ¹	No	1	No	Yes
Harvard University	No		No	2	Yes	Yes ¹¹
University of Hawaii	No	No ¹	No	2	Yes	No
Hebrew Union College—Jewish Institute of Religion, Cincinnati	No	Yes	No	2	Yes	Yes ¹¹
Hebrew Union College—Jewish Institute of Religion, Los Angeles	No	No	No	2	Yes	
Hebrew Union College—Jewish Institute of Religion, New York			No information received.			
University of Houston	No	Yes ¹	No	1	No	No
Howard University	No	Yes ¹	No	1	Yes	
University of Idaho	No	Yes ¹	No	2	Yes	No
The Iliff School of Theology	No	No	No	2	Yes	
University of Illinois (including University of Illinois at the Medical Center)	No	Yes ¹	No	2	Yes ⁴	Yes
Illinois Institute of Technology	No	No	Yes	1	Yes	No
Indiana University, Graduate School	No	Yes ¹	No	2	Yes	
School of Business	No	No	No	3	Yes	No
School of Education	No	Yes ¹	Yes	2	No	
School of Health, Physical Education and Recreation	No	Yes ¹	No	4	Yes	No
School of Music	No	Yes ¹	No	2	Yes	No
The Institute of Paper Chemistry, affiliated with Lawrence College	No	No ¹	No	1	Yes	No
Institutum Divi Thomae	No	¹	No	3	Yes	
Iowa State University of Science and Technology	No	Yes ¹	No	2	Yes	Yes
Jefferson Medical College of Philadelphia			No information received.			
The College of Jewish Studies	No	Yes	No ³	4	Yes	Yes
Jewish Theological Seminary of America	No	No	No	1	No	Yes
The Johns Hopkins University	No	Yes ¹		2	Yes ¹¹	
University of Kansas	No	Yes ¹	No	2	Yes	Yes ¹¹
University of Kansas City	No	No	No	2	Yes	No
Kansas State University	No	Yes ¹	No	3	Yes	
Kent State University	Yes	Yes ¹	No	2	Yes	No ⁴
University of Kentucky	No	No ¹	No	2	Yes	No
Université Laval	Yes	No ¹	Yes	3	Yes	Yes
Lawrence College			See Institute of Paper Chemistry.			
Lehigh University	No	Yes ¹	No	0	No	No
Loma Linda University	No	No	No	2	Yes	No
Louisiana State University	No	¹	No	1	Yes	No
University of Louisville	No		No	1	No	No
Lowell Technological Institute	No	Yes	No	2	No ¹⁷	
Loyola University, Chicago	No		No	2	Yes	Yes
Lutheran School of Theology at Chicago	No		No	2	Yes	
University of Maine	No	Yes ¹	No	1	Yes	
Marquette University		Yes ¹	Yes	2	Yes	
University of Maryland	No	¹	No	2	Yes	
University of Massachusetts	No	No ¹	No	1	Yes	Yes
Massachusetts College of Pharmacy	No	No	No	2	Yes	
Massachusetts Institute of Technology	No	No	Yes	1	No	No
McGill University	No		No	2	Yes	
University of Miami	No	Yes ¹	No	3	Yes	No
The University of Michigan	No	Yes ¹	No	1	Yes	No
Michigan State University	No	Yes ¹	No	1	Yes	Yes

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Middlebury College	No	No	No	2	Yes	No
University of Minnesota	No	Yes ¹	No	2	Yes	No
The University of Mississippi	Yes	Yes ¹	Yes	2	Yes	
The University of Mississippi School of Medicine	No	Yes	No	1	Yes	No
Mississippi State University	No	No	Yes	2	Yes	Yes
University of Missouri	No	Yes ¹	Yes ¹⁶	1		No
Montana State College	No		No	2	Yes	
Montana State University	No	Yes ¹	Yes ³	1	No	No
University of Nebraska (including Teachers College)	No	Yes ¹	No	2	Yes ⁴	Yes
Ner Israel Rabbinical College	No		No	1	No	Yes
University of Nevada ²³			No information received.			
Newark College of Engineering ²³			No information received.			
University of New Brunswick	No		No	2	Yes	No
University of New Hampshire	No	Yes ¹	No	2	No	No
University of New Mexico	No	Yes ¹	No	2	Yes	No
New Mexico Highlands University ²³	No	Yes	Yes	2	Yes	No
New Mexico Institute of Mining and Technology	No	Yes	No	2	Yes	Yes ⁴
New Mexico State University	No	Yes ¹	No	3	Yes	
New Orleans Baptist Theological Seminary	No	No	No	2	Yes	No
New School for Social Research	No	Yes ¹	No	1		
New York Law School	No	No	No	9	Yes	No
New York Medical College			No information received.			
New York University	No	Yes ¹	No	¹⁸	No	No
University of North Carolina at Chapel Hill	No	Yes ¹	No	2		
North Carolina College at Durham	No		No	2	Yes	
North Carolina State of the University of North Carolina at Raleigh	No		No	1	No	No
University of North Dakota	No	Yes	Yes	¹⁹	Yes	No
North Dakota State University	No	Yes	No	2	Yes	
North Texas State University	No	Yes ¹	No	2	Yes	No
Northeastern University ²³			No information received.			
Northwestern University	No	No ¹	No	1	Yes	
University of Notre Dame	No ²⁹	Yes ³⁰	No	2	No	Yes ⁴
Occidental College	No	Yes	No	1	No	No
Ohio University	No	Yes ¹	Yes	2	Yes	
The Ohio State University	Yes	Yes ¹	No	2	Yes	No
The University of Oklahoma	No	Yes ¹	No	2	Yes	
Oklahoma State University	No	Yes ¹	Yes	2	Yes	
University of Oregon	No	Yes ¹	No	2	Yes	No
Oregon State University	No	¹	No	2	Yes	
University of the Pacific	No	Yes ¹	No	2	Yes	
Pacific School of Religion	No	Yes ¹	No	2	Yes	Yes
University of Pennsylvania (including School of Education)	No	Yes ¹	Yes	2	Yes	No
School of Social Work	No	Yes ¹	No	1	No ²⁰	
Pennsylvania State University	No	Yes ¹	No	2	Yes	No
Philadelphia College of Pharmacy and Science	Yes	No ²¹	Yes	1	No	Yes
University of Pittsburgh	No	Yes ¹	No	2-3	No	No
Pittsburgh Theological Seminary	No	No	No	2	Yes	
Polytechnic Institute of Brooklyn	Yes	No ¹	Yes	1	Yes	Yes
University of Portland	No	No	No	3	Yes	No
Princeton Theological Seminary	No	Yes ¹	No	2	No ⁵	No
Princeton University	No	No ¹	No	2	Yes	No
Purdue University	No	Yes ¹	No	1	Yes	No
University of Redlands	No	No ¹	No	2	Yes	
Rensselaer Polytechnic Institute	No	Yes ¹	Yes	1	No	No

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
University of Rhode Island	No	Yes ¹	No	2	Yes	
Rice University	No	¹	No	3	Yes	
The University of Rochester	No	No ¹	No	2	Yes	
The Rockefeller Institute	Yes	No ¹	No	2 ²²	No	Yes
Rutgers - The State University	No	Yes ¹	No	1	Yes ⁴	
St. Bonaventure University	No	No	No	3	Yes	
St. John's University	No	No	Yes	2	Yes	No
St. Louis University	No	Yes ¹	No		Yes ⁴	
St. Mary of the Lake Seminary	Yes	No	No	0	No	Yes
St. Mary's Seminary and University			No information received.			
San Francisco Theological Seminary	Yes	No	No	2	Yes ¹¹	No
University of Saskatchewan			No information received.			
Smith College	No		No	2	Yes	Yes
University of South Carolina	No	Yes ¹	No	2	Yes	No
Medical College of South Carolina	No	No	No	2	Yes	
South Dakota State College	No	Yes ¹	No	2	No	No
Southern Baptist Theological Seminary	No	No	Yes ²⁴	2	Yes	No
University of Southern California	No	No ¹	No	1 ²⁵	Yes ⁴	Yes ⁴
Southern California School of Theology	No	No	No	1	Yes	No
Southern Illinois University	No	Yes ¹	No	2	No	No
Southern Methodist University	No		Yes	2	Yes	
University of Southern Mississippi	No	Yes ¹		2	Yes	
Southwestern Baptist Theological Seminary	No	Yes	No	2	Yes ⁴	No
Springfield College	No	Yes ²⁸	No	3	Yes	
Stanford University	No	No ¹	No	3-4	Yes ⁴	No
State University of Iowa	No	Yes ¹	No	1	No	No
State University of New York at Albany	No	No ^{1,21}	No	1	No	No
College at Buffalo	No	Yes ¹	No	2	Yes	No
College of Ceramics	Yes	No ¹	Yes	1	Yes ²⁷	Yes
College of Forestry	No		Yes	2	Yes	No
Downstate Medical Center	No	No	No	2	Yes	No
Graduate School of Public Affairs	No	Yes	No	1	Yes	No
Upstate Medical Center			No information received.			
State University of South Dakota	No	Yes ¹	No	2	Yes	No
Stevens Institute of Technology	No	Yes ¹	Yes	1	No	No
Syracuse University	No	Yes ¹	No	1	Yes	No
Temple University	No	Yes ¹	No	2	Yes ⁴	Yes
The University of Tennessee	No	Yes ¹	No	2	No	
The University of Texas	No	No ¹	No	1	No	
Texas Christian University ²³			No information received.			
Texas A. & M. University	No	No ¹	Yes	2	No ²	No
Texas Technological College	No	Yes ¹	Yes	2	Yes	
Texas Woman's University	No		No	2	Yes	
University of Toledo			No information received.			
University of Toronto	Yes	No ¹	No	2	Yes	No
Tufts University	No	No	No	2	Yes	No
Tulane University	No	Yes ¹	No	1	No	No
University of Tulsa	No	No	No	2	Yes	No
Union College and University	No	Yes	No	2	Yes ⁴	No
Union Theological Seminary, New York	No	¹	No	1	Yes	
Union Theological Seminary, Virginia	No		³	2	Yes	Yes ¹¹
U.S. Naval Postgraduate School	No	No	No	3	Yes	No
University of Utah	No	No ¹	No	2	No	No
Utah State University	No	¹	Yes	1	Yes	
Vanderbilt University	No	Yes ¹	No	2	Yes	
University of Vermont	No	Yes	No	3	Yes	No
University of Virginia, Graduate School	No	¹	No	2	Yes ⁴	
School of Education	No	Yes	No	2	Yes	
School of Engineering	Yes	No	No	3	Yes	No
School of Law	Yes	No	No	1	Yes	No

University	Printing Required	Accepts Micro- filming	Abstracts Published	MS Copies Supplied Library	Lends Typed Copies	Lends Printed Copies
Medical College of Virginia	No	No	No	1	Yes	No
Virginia Polytechnic Institute	Yes	Yes ¹	No	3	Yes	Yes
Wake Forest College	Yes	No	No	2	No	No
Washington State University	No	No ¹	No	2	Yes	No
Washington University	No	Yes ¹	No	1 ²⁸	Yes	
University of Washington	No	Yes ¹	No	2	Yes	No
Wayne State University	No	Yes ¹	No	2	No	No
West Virginia University	No	No	No	2	Yes	No
Western Reserve University	No		No	2	Yes	
Westminster Theological Seminary	No	Yes ¹	No	2	Yes	Yes
University of Wichita			No information received.			
The University of Wisconsin	No	Yes ¹	No	1	No	No
Woman's Medical College of Pennsylvania . .	No	Yes	No	1	Yes	No
Woodstock College	Yes	No	No	1	No	Yes
Worcester Polytechnic Institute	No	No	No	2	No	No
University of Wyoming	No	No	Yes	2	Yes	Yes
Yale University (including Yale School of Drama)	No	No ¹	No	2	Yes	No
Yeshiva University	No	Yes ¹	No	1	Yes	

STATISTICAL TABLES

A ten-year comparative tabulation of doctoral dissertations by subject fields is shown in Table II.

Table III gives an analysis by universities and by subjects for the current year. Such tables were compiled also for the preceding volumes in this series. In the American Council on Education's *American universities and colleges*, 3d ed. (p. 54-75) will be found similar tables for the years 1925-35.

In order to avoid misinterpretations, it must be made clear that the lists in this series are not limited to dissertations written for the Ph.D. degree, but that dissertations written for other kinds of doctoral degrees, e.g. in Education, Science, Jurisprudence, Canon Law and Theology, are also included.

SYMBOLS AND ABBREVIATIONS

- † Indicates dissertations accepted prior to academic year covered by this volume, but not previously reported. These titles are not counted in the statistical tables.

TABLE II
DISTRIBUTION OF DOCTORATES FOR THE YEARS
1954-1963

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Philosophy	104	100	96	96	104	123	137	159	158	176
Religion	152	138	140	159	180	184	235	202	238	243
Astronomy	18	17	24	9	23	20	16	17	32	34
Biophysics						18	16	16	25	20
Chemistry	1169	1150	970	1016	1231	1272	1370	1425	1499	1539
Engineering	383	378	572	492	605	668	790	923	1188	1360
Mathematics	233	249	256	240	245	295	294	327	402	495
Metallurgy	66	75	27	70	1	1	1	1	1	1
Physics	548	528	534	504	529	560	582	645	777	894
Geography	46	52	58	47	60	55	66	53	62	75
Geology	130	131	145	152	162	206	228	205	205	268
Geophysics	20	17	12	2	2	2	2	2	2	13
Meteorology	13	6	7	24	2	2	2	2	2	2
Mineralogy	12	8	9	8	8	16	7	17	11	10

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Oceanography						8	7	5	10	8
Paleontology	17	18	6	3	3	3	3	3	3	3
Agriculture	225	216	176	206	345	407	437	445	476	438
Anatomy	42	40	35	26	31	36	31	40	41	53
Bacteriology	329	298	189	119	134	101	97	113	107	124
Biochemistry	322	335	307	205	4	4	4	4	4	94
Biology—Genetics					160	146	196	152	198	262
Botany	144	130	154	164	133	140	151	145	160	194
Entomology	98	99	41	5	5	5	5	5	5	20
Food Technology					31	40	39	30	28	40
Genetics	55	65	89	124	6	6	6	6	6	6
Health Sciences					56	72	152	100	126	148
Horticulture	67	65	114	152	7	7	7	7	7	7
Medicine & Surgery	52	65	29	46	8	8	8	8	8	8
Microbiology						44	49	37	82	74
Pharmacology	96	90	104	67	57	58	68	68	70	89
Physiology	131	130	126	134	144	115	92	114	132	131
Psychology	735	740	727	569	628	687	634	666	738	796
Public Health	9	17	22	23	8	8	8	8	8	8
Zoology	205	190	220	261	284	237	273	272	310	321
Anthropology	53	44	44	62	48	54	63	46	86	79
Business Administration										42
Economics	502	478	429	381	472	462	494	548	623	658
Education	1428	1409	1418	1333	1485	1503	1440	1554	1866	1896
History	289	254	284	330	332	354	375	393	390	433
Home Economics	11	8	10	58	23	16	28	30	37	32
International Law & Relations	52	49	54	59	9	9	9	9	9	9
Law	13	13	23	22	22	14	16	17	21	14
Library Science	3	7	14	8	19	9	22	20	11	22
Political Science	162	167	203	141	193	226	246	248	287	318
Social Psychology					44	39	76	74	75	101
Social Work										62
Sociology	222	228	170	182	175	213	196	215	237	289
Art & Archaeology	31	40	33	35	10	10	10	10	10	10
Biography					7	3	6	7	10	17
Fine Arts					49	41	39	48	31	41
Folklore					2		3	5	4	3
Journalism					8	14	21	18	10	15
Language & Literature, General	15	10	64	183	214	264	254	309	338	313
Language & Literature, Classical	42	36	23	24	29	24	28	39	45	39
Language & Literature, Linguistics				33	59	45	56	47	64	69
Language & Literature, Modern				332	263	250	298	252	295	361
Literature, English	355	345	319	11	11	11	11	11	11	11
Literature, Romance	124	119	148	11	11	11	11	11	11	11
Literature, Germanic	55	30	51	11	11	11	11	11	11	11
Literature, E. European	9	17	11	11	11	11	11	11	11	11
Literature, Oriental	24	19	26	11	11	11	11	11	11	11
Music	62	62	84	89	96	101	138	145	132	185
Speech—Theater	117	130	103	128	109	154	161	152	190	200
Totals	9,000	8,812	8,699	8,363	8,799	9,295	9,927	10,343	11,827	13,108

¹ Included in Engineering.

² Included in Physics.

³ Omitted as a separate field.

⁴ Included in Chemistry.

⁵ Included in Zoology.

⁶ Included in Biology—Genetics.

⁷ Included in Agriculture.

⁸ Included in Health Sciences.

⁹ Included in Political Science.

¹⁰ Included in Fine Arts or History, Archaeology.

¹¹ Included in other branches of Language and Literature.

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
BY UNIVERSITY AND
BY SUBJECT

[illegible]

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
(Continued)

[illegible]

[illegible]

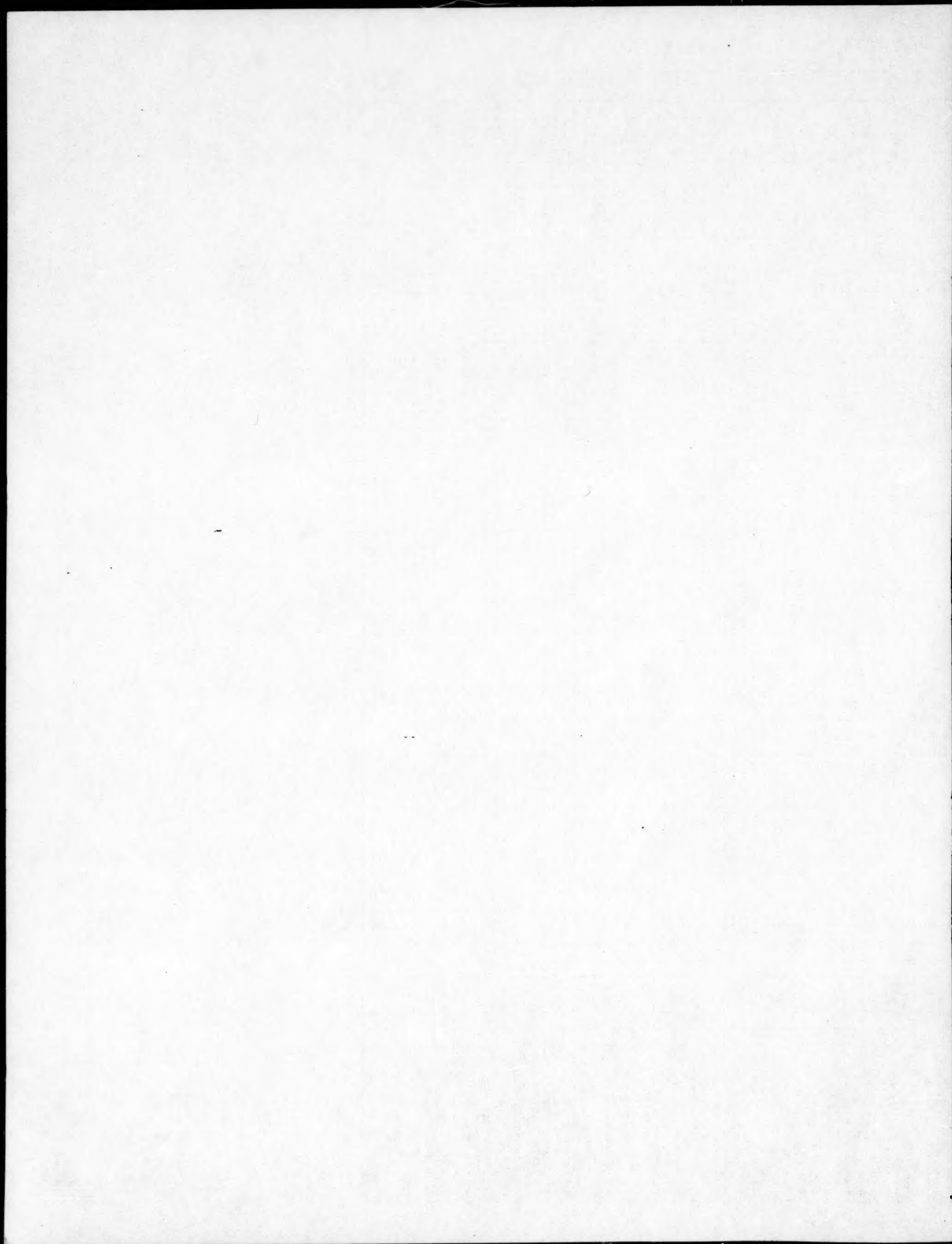
TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
(Continued)

[illegible]

[illegible]

TABLE III
DISTRIBUTION OF
DOCTORATES FOR THE
YEAR 1962-1963
(Continued)

[illegible]



Doctoral Dissertations, 1962-1963

AGRICULTURE

General

Agricultural and Mechanical College of Texas

BURRUS, James A. The evaluation of fats and oils in chick diets.

STROTHER, Allen. Calcium and phosphorus requirements of the young growing chick.

WALDRIP, William J. Utilization of side-oats grama (*Bouteloua curtipendula* (Michx.) Torr.) and its value as an indicator of grazing intensity in the rolling plains of Texas.

Auburn University

GIBBS, James Allen. Genesis of *fragipans* in tilsit and associated hartsells soils in Alabama.

University of California, Davis

ANGUS, David Edgar. The influence of meteorological and soil factors on the rate of evapotranspiration of a crop.

Georgetown University

GONDOKOESOEMO, Abdul Aziz. Soviet agriculture under Khrushchev.

University of Georgia

MOUGHARBEL, Said K. Improving agriculture in Syria through a program of extension education.

SMITH, Yates Curtis. Water movement on Orangeburg sandy loam.

University of Illinois

ADAMS, JR., Russell Stanley. Ammonium sorption and release by soil-forming rocks and minerals.

ZOGG, Carl Arthur. The influence of milk fat depressing rations on the yield and composition of bovine milk.

Iowa State University of Science and Technology

ABRAMS, Raúl. Variation in quantitative characters of oats (*Avena sativa*) after different mutagen treatments.

ANDERSON, Carl Andrew. Quantitative chromatographic separation of total organic phosphorus from soil extracts.

ARNOLD, Richard Warren. Silans in some brunizem soils.

COLLINS, William Kerr. Ear shoot development and performance of two-ear types of Corn Belt maize.

GREEN, Richard Ervin. Infiltration of water into soils as influenced by antecedent moisture.

RUNGE, Edward Christ Arthur. Influence of natural drainage on iron and phosphorus distribution in some Iowa soils.

REED, Marion Guy. Kinetics of potassium release from biotite in solutions containing sodium tetraphenylboron.

SCHMIDT, Berlie Louis. Relative erodibility of three loess-derived soils in southwestern Iowa.

SEKHON, Gurcharan Singh. Soil organic phosphorus and the phosphorus nutrition of plants.

VOSS, Regis Dale. Yield and foliar composition of corn as affected by fertilizer rates and environmental factors.

YAO, Augustine Yi Ming. The effect of plant population and planting pattern of corn on radiation interception and water use.

Kansas State University

McMURPHY, Wilfred. Burning Flint Hills grassland: effects on range condition forage production, and soil moisture.

NADDIH, Badi Ibrahim. I. The influence of adsorbed cations on the dielectric constants of vermiculite and bentonite. II. Infrared spectroscopy investigation of phosphorus interaction with minerals.

University of Massachusetts

CRAWFORD, Roy Douglas. Studies of the relationship between fertility and the gene for rose comb in the domestic fowl.

WENTWORTH, Bernard Charles. The effect of spermatozoal antibodies on the fecundity of domestic fowl and Japanese quail.

McGill University

JEFFERS, Hugh Frederick MacKenzie. The nutritive evaluation of a mixed pasture.

Michigan State University

MILLER, Gerald Ray. An evaluation of competition between weeds and sugar beets (*Beta vulgaris* L.)

University of Minnesota

ABDEL-RAHMAN, Hashim Aly. A study on the ecology of the Indian meal moth, *Plodia interpunctella* hb., with emphasis on its relation to stored grain fungi.

BOELTER, Don Howard. A study of some physical properties of several peat materials and their relation to field water conditions in the peat bog.

MEADE, Alston Bancroft. The origin and development of populations of the six-spotted leafhopper, *Macrostelus fascifrons* (stal.), on an area basis.

WARNER, Lloyd Claude. Factors affecting the fate and phytotoxicity of 3-amino-2,5-dichlorobenzoic acid (amiben).

Mississippi State University

CALDWELL, William Porter. Relationship of pre-harvest environmental factors to seed deterioration in cotton.

University of Missouri

HARGUS, William Anthony. Ovine bioenergetics and nutritional efficiency with special reference to forage utilization.

HICKS, Raymond Donald. Cotton defoliation in Missouri as affected by temperature, variety, and chemical defoliant.

North Carolina State of the University of North Carolina at Raleigh

HILTON, Horace Gill. Some interrelationships of clay mineralogy, soil strength, and plant root growth.

The Ohio State University

CHAHAL, Kulwant Singh. Decomposition products of carbon-14 labelled rye tissue in a peat profile.

CHOE, Hyung Tae. Growth, yield, and anatomical structure of the union resulting from budding apple varieties on intermediate stocks.

KALANGI, Christopher Jayadas. An analysis of training needs of extension agents in urban and farm counties.

LAKSHMANAN, Cocherapanicker. Chemical and morphological characteristics of soils as influenced by several tree species.

Purdue University

CHUNG, Ronald Aloysius. The effect of different dietary fats and cholesterol on the chemical composition of the egg and tissues of the hen.

EVANS, Samuel Davidson. The effect of cation exchange capacity, clay content and fixation on diffusion and uptake of rubidium-86.

GUPTA, Rajinder Pal. Hydraulic conductivity of porous media as affected by gases.

HARDIN, Robert Toombs. Two way selection for body weight in *Tribolium castaneum* on two levels of nutrition.

LAFAVER, Howard Nelson. Cytological, environmental, chromosome association, and heterosis studies involving an aneuploid line of *Avena sativa*.

PATTEE, Harold Edward. Nitrogen and potassium as variables influencing soluble nitrogen and organic acid accumulation in soybean (*Glycine max*).

PLACE, Gerald Alan. The effect of soil moisture on diffusion and root physiology and their relation to potassium and Rb⁸⁶ uptake.

Rutgers - the State University

CHALUPA, William Victor. Nitrogen utilization and microbial activity.

DEAL, Elwyn Ernest. Regulation growth of merion Kentucky bluegrass (*Poa pratensis* L.) turf with cultural and management techniques.

MITTERLING, Lloyd Alfred. The vegetative response to various photoperiods of *Malus platycarpa*, Rehd., an apomictic crab apple species.

RIMM, Alfred Aron. Some effects of heredity and environment on appetite in dairy animals.

STILLIONS, Merle C. Effect of hormones and minerals on cellulose digestion and rumen microbial growth.

SULLIVAN, John J. A. Factors influencing quality of frozen bull semen; B. Factors influencing uptake of radioactive triiodothyronine by bull spermatozoa.

WELLS, Phillip Richard. Changes related to casein precipitation in concentrated milk during frozen storage.

University of Saskatchewan

GHOSH, Abhijit Narayan. Cytogenetic investigations of a chlorophyll mutant in smooth brome-grass *Bromus inermis* Leyss.

SHARMA, Devendra. The transfer of leaf rust resistance from *Agropyron elongatum* (Host.) Beauv. to common wheat, by irradiation.

University of Toronto

CAWLEY, Allan Joseph. The blood supply of the bones of the pelvic limb research will cover the femur, with particular reference to the femoral head and neck, tibia and fibula, tarsal bones, metatarsals and the phalanges.

Utah State University

KOHL, Robert Alvin. On the enthalpy and entropy of soil water.

REUSS, John Otto. Nitrite reactions in soil.

The University of Wisconsin

AL-MULLA HUMMADI, Mustafa K. Abdurahman. Biology of *Hippelates* eye gnats (Diptera: Chloropidae) in Wisconsin.

FOSBERG, Maynard Axel. Genesis of some soils associated with low and big sagebrush complexes in the brown, chestnut, and chernozem-prairie zones in southcentral and southwestern Idaho.

KUNISHI, Harry Mikio. Factors affecting the release of soil potassium to exchangeable form on drying.

MILFORD, Murray Hudson. Mineralogical analyses of some soils from the north central United States in relation to potassium availability.

SAARI, Albert Leo. Lipoproteins in egg yolk.

VALENCIA, Iluminado Gana. The effect of flooding on the availability of phosphorus and on the growth of rice.

Animal Culture

Agricultural and Mechanical College of Texas

ELLIS, JR., George Forbes. A biometrical evaluation of heterosis in beef cattle.

QURESHI, Abdul Wahab. Genetic trends in milk and butterfat production of Texas dairy herd improvement association cows.

University of Alberta

LI, Ming-fang. *In vitro* studies on the effects of valeric acid on the growth and metabolism of rumen microorganisms.

MacKAY, Vernon Garnet. Effects of inorganic salts on rumen volatile fatty acid production and percent fat in milk.

Auburn University

MILLER, III, William Wadd. Studies of ovarian activity and fertility in ewes and ewe lambs.

University of California, Davis

BARTLEY, John Conner. Glucose metabolism in the dairy cow: effect of glucose load via duodenal and ruminal vein infusion.

BOBR, Lidia Wanda. Oviducal distribution of spermatozoa and fertility of the domestic fowl.

OLANDER, Harvey Johan. A septicemic disease of swine and its causative agent, *Haemophilus parahaemolyticus*.

Cornell University

McFEE, Alfred Frank. Changes in testicular morphology and reproductive capacity of male rabbits following pre-pubertal exposures to gamma irradiation.

PALADINES, Osvaldo Lyonel. Energy utilization by sheep as influenced by physical form, composition and level of intake of diet.

PAVEY, Robert Louis. Some nutritional and physiological effects of feeding pelleted hay to ruminants.

RYAN, Roderick Kennedy. A study of the phenomenon of adaptation by sheep to gradual increases in grain intake as an approach to an understanding of the pathogenesis of grain engorgement in sheep.

SIMMONS, Kenneth Rogers. The nature of the luteotropic hormone in the bovine.

The University of Florida

HUFFMAN, Dale Linwood. Electrophoretic components, pH and calcium, phosphorus and magnesium content of muscle as related to tenderness.

MARTIN, Jack Edward. Influence of dietary magnesium and sulfur upon phosphorus utilization, rumen function and appetite in ruminants.

University of Georgia

MARION, James Edsel. The influence of diet and age on lipid metabolism of chickens.

SHARMA, Narsingh Narain. Response of the fowl (*Gallus domesticus*) to seven species of parentally administered coccidial organisms.

University of Illinois

JORDAN, Harley Allen. Dietary and thyroid interrelationships affecting vitamin A status of feedlot beef cattle.

KING, Thomas Bloese. Rumeno-reticular losses of vitamin A and carotene.

ROBINSON, Loren Keith. Effects of changes in body weight during lactation on the milk and milk fat production of purebred and crossbred cows.

Iowa State University
of Science and Technology

CHRISTIANSEN, William Cleve. Nutrient and other environmental influences upon rumen protozoal growth and metabolism.

NICHOLS, Elmer Loren. Effect of cholesterol and fat source on serum cholesterol and blood pressure levels in the growing chick.

RUST, Joseph William. Effects of supplemental dietary enzymes on utilization of nutrients by calves.

SIMS, John Albert. Characteristics of milking flow among dairy cows.

SMITH, Keith James. Relationship of ruminal calcium, magnesium, ammonia and total salts to the occurrence of bloat in lambs.

URBAN, JR., Willard Edward. Genetic and environmental aspects of litter size in swine.

Kansas State University

NORWOOD, James Spencer. Factors affecting post-partum regression of the bovine uterus.

University of Kentucky

FIELD, Ray Arvid. Carcass evaluation of lambs from selected crosses.

GARRIGUS, Robert R. Effects of physical form of soybean hulls on the production of volatile fatty acids and on steer performance.

GREATHOUSE, Terry Ray. Preweaning and postweaning in performance and carcass characteristics of Hereford and Hereford X red poll crossbred calves.

HUBER, Thomas Lee. Relation of extracellular acid-base parameters to the pathogenesis of acute ovine indigestion.

SKELLEY, JR., George C. Quick aging of hams and colorimetric rancidity measurements.

Louisiana State University

ACHACOSO, Antonio Solis. Nutritional evaluation of permanent pastures with dairy cattle in Louisiana.

CLARK, Glenn Elward. Endogenous histamine and meat tenderness.

HAMM, Douglas. The influence of diet on urinary excretion and ovarian deposition of fatty acids by the domestic fowl.

KEENE, James Howard. Utilization of amino acids as affected by energy level.

LOVELL, Richard Thomas. Effects of feeding lactating cows a complete vitamin-mineral supplement with high-grain and high-roughage rations.

MINER, James Joshua. Biological evaluation of soybean meal and cottonseed meal by amino acid digestibility and protein efficiency ratio studies.

ORDOVEZA, Antonio Lino. Nutritional evaluation of pastures for dairy cattle in Louisiana using *in vitro* methods.

RANDEL, Paul Folling. The effect of simulated Louisiana summer conditions on newborn dairy calves I. growth, feed intake, digestibility, plasma proteins, and certain blood constituents.

ROUSSEL, Joseph Donald. Effect of light, temperature, and humidity on physiological response of dairy bulls.

University of Maryland

HEAD, Henry Herbert. The determination of glucose utilization in the bovine using isotope dilution techniques.

KEENE, Owen David. Magnesium requirements of chicks and poults.

PANDA, Bhagabat. Role of certain vitamins in resistance-capability of growing chickens exposed to coccidiosis and pullorum antigen.

Michigan State University

EVERETT, JR., James P. Some factors affecting intake of alfalfa silage by dairy heifers.

HARMON, Bud Gene. The relationship of specific nutrient deficiencies to antibody response in swine I. Vitamin A. II. Pantothenic acid, pyridoxine or riboflavin.

KIRTON, Alan Henry. The potassium, sodium and cesium content of animals and the relationship to composition.

LAMB, Robert Cardon. Usefulness of part records in estimating the breeding values of dairy cattle.

OSTMANN, Orville William. Fundamental anatomical and physiological studies on the feather release mechanism in the domestic fowl.

University of Minnesota

AHLUWALIA, Balwant Singh. Some biochemical aspects of fowl semen.

DETTMERS, Almut E. Selection for small size in swine.

PROUTY, Richard Metcalf. A study of the effects of selenium and vitamin E upon the lipid metabolism of the growing pig.

TAHA, Ahmad Al-Haj. The effect of roughage-concentrate ratios and level and source of nitrogen on nutrient digestibility and nitrogen retention by sheep.

TYAGI, Raj Pal Singh. Effects of pentothal sodium anesthesia on the horse.

WILK, John Clark. Genetic and phenotypic relationships between certain body measurements and milk production in dairy cattle.

University of Missouri

CUNNINGHAM, Merle Dean. The effect of drinking water temperature on intraruminal temperature and ruminant digestion.

North Carolina State of the University of North Carolina at Raleigh

SLYTER, Leonard Leroy. Sodium and potassium of the rumen as related to volatile fatty acid metabolism.

The Ohio State University

BRUM, Eldon Wesley. Some effects of low levels of inbreeding resulting from a specific line development mating system on growth and production characteristics in dairy cattle.

NELSON, Eldon Carl. The biological activity of vitamin A acid in the pig.

RAHMAN, Syed Abdul. Studies on culturing rumen protozoa (*Entodinia*) *in vitro*.

RAUSCH, Wayne Henry. The inheritance of bovine transferrin types as determined by disc electrophoresis; their use in the determination of animal relationships, and the association of these types with fertility and production.

Oklahoma State University

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DIAZ, May Nordquist. Tonalá: a Mexican peasant town in transition.

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BERESKIN, Ben. Effects of genetic and environmental variance on dairy sire evaluation.

BROWN, Russell Vedder. Blood group studies in five lines of white leghorns selected for single quantitative traits.

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BUZZELL, Richard Irving. Inheritance of time of flowering in *Lotus corniculatus*.

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SCHIERMAN, Louis William. Genetic analysis of transplantation immunity in the fowl.

VAN AARDE, Izak Mauritz Rohm. Covariances of relatives in random mating populations with linkage.

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BYRNE, Raymond Winthrop. Techniques for ordering peptide sequences in proteins.

CATHOU, Renata Egone. 5,10-methylene tetrahydrofolic reductase, an enzyme of methionine biosynthesis.

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SIGNER, Ethan Royal. Non-heritable factors in gene expression.

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CAMACHO, Luis Humberto. Quantitative genetic analysis of physical components of yield in corn.

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NAMKOONG, Gene. Comparative analyses of introgression in two pine species.

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- HICKMAN, Roy Scott. The influence of shock wave-boundary layer interaction on heat transfer to an axisymmetric body.
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WARREN, James Ronald. A study of the congressional debates concerning the Oregon questions.

Wayne State University

EVEN, Arthur D. Communication in the management of technological change.

HOUCHINS, Rollie R. A study of pitch discrimination in children with normal and impaired hearing.

JAKSA, James A. An experimental study of one-sided and two-sided argument with emphasis on three two-sided speeches.

MEADOR, Millard McAllister. Pitch perception displacements occurring with pre- and post-stimulatory fatigue.

NORRIS, Thomas Wellington. Diplacusis associated with unilateral high frequency hearing loss.

ROLLIN, Walter J. A comparative study of vowel formants of esophageal and normal-speaking adults.

RUSSI, JR., Bernard A. The history and development of German broadcasting as an instrument of social control.

WILLIAMS, Robert C. A study of the relationship between basic television shots and expressed interest level.

Western Reserve University

COLLEATH, James Arnold. The Japanese Noh drama and its relation to Zen Buddhism.

The University of Wisconsin

BROWN, JR., Firman Hewitt. A history of theater in Montana.

BURKS, Don Marvin. Psychological egoism and its refutation in rhetorical theory.

HAAS, Thomas Booth. Kean, Irving, Tree: Shakespearean production aesthetics.

KNEPPRATH, Hubert Eugene. The elements of persuasion in the nationally broadcast speeches of Eisenhower and Stevenson during the 1956 presidential campaign.

LEITNER, Margaret Ann. A study of the effects of intraphrase rate and pause time on information gain and speaker image.

MILLER, George Henry. An evaluative study of short term intensive speech therapy for adolescent stutterers.

SCHARFENBERG, Jean. Lee Strasberg: teacher.

VINCENT, James Edwin. Freedom and responsibility: an introductory essay on existential themes in American drama.

WADE, Elizabeth Ruth. An experimental study of auditory perception of speech patterns by normal hearing children.

WIESEN, Pearl. *Twelfth Night*: a stage history.

Yale University

SCOTT, Charles Edwin. Sidney Howard: American playwright.

ZOOLOGY

University of Alabama

HOLLIMAN, Dan Clark. The mammals of Alabama.

University of Arizona

DAVIS, Russell Price. Homing in bats.

HEATH, Wallace Gordon. Maximum temperature tolerance as a function of constant temperature acclimation in the Gila top minnow (*Poeciliopsis occidentalis*).

MITCHELL, Henry Andrew. Respiratory physiology and anatomy in certain members of the chiropteran family Molossidae.

Auburn University

SHOFFEITT, Paul E. Comparative studies with certain antidotes for organophosphate poisoning.

TIMMERMAN, JR., James Anderson. Toxicological studies of organophosphate anthelmintics.

Boston University

THEODORIDES, Vassilios John. The morphology and physiology of *Tribhomonas gallinarum* Martin and Robertson, 1911, with special reference to electron microscopy and sugar fermentation.

University of California, Berkeley

BARNES, Allan Marion. A revision of the genus *Anomiopsyllus* Baker 1904 (Siphonatera: Hystri-chopsyllidae) with studies on the biology of *Anomiopsyllus falsicalifornicus*.

CATTS, JR., Elmer Paul. The biology of *Cuterebra latifrons* Coq. (Diptera: Cuterebridae).

DAHLSTEN, Donald Lee. The bionomics of pine sawflies, *Neodiprion fulviceps* complex, in a California brushfield plantation (Hymenoptera: Diprionidae).

FORBES, Albert Ronald. The morphology, histology, and fine structure of the gut of the green peach aphid, *Myzus persicae* (Sulzer).

HUSSEINY, Mohamed Mamdouh. Sterilization by gamma radiation for the control of the navel orangeworm *Paramyelois transitella* (Walker) (Lepidoptera: Phycitidae).

KONRAD, Carol Guze. Protein synthesis and ribonucleic acid synthesis during mitosis in animal cells.

KOPELOVICH, Levy. Investigation of enzymatic activities in relation to resistance in the housefly, *Musca domestica* Linnaeus.

LINDQUIST, Evert Esplin. A revision of mites of the subfamily Blattisocinae (Acarina: Blattisocidae) in America north of Mexico. Part I. Introduction. Part II. Taxonomy of the blattisocine genera excepting Proctolaelaps Berlese.

NEWMAN, William Anderson. Adaptive behavior and physiology of estuarine barnacles.

OUTKA, Darryll Elliott. Nutritional and morphogenetic studies of the amoeba-flagellate, *Tetramitus rostratus* Perty.

PENNELL, James Thomas. The development and evaluation of Dieldrin resistance in a laboratory colony of *Culex quinquefasciatus* (Say).

ROBERTS, Don Raoul. Rodent movements in a cutover forest of the Sierra Nevada, California.

SCHUSTER, Frederick Lee. An electron microscope study of the amoeba-flagellate, *Naegleria gruberi* (Schardinger).

WILHOFT, Daniel Charles. Seasonal changes in the gonads and thyroid in a tropical lizard, *Leiopisma rhomboidalis*.

University of California, Davis

CLARK, Glen W. Biological studies on the leucocytozoon sp. in the yellow-billed magpie, *Pica nuttalli*.

HEWITT, Robert Burns. Early embryology of the two-spotted spider mite *Tetranychus telarius* (L.) (Acarina: Tetranychidae).

NICKLE, William Robert. The endoparasitic nematodes of California bark beetles with descriptions of *Bovienema* n. g. and *Neoparasitylenchus* n. subg. and with the presentation of new information on the life history of *Contortylenchus elongatus* n. comb.

University of California, Los Angeles

CARPENTER, Roger Edwin. A comparison of thermoregulation and water metabolism in the kangaroo rats, *Dipodomys agilis* and *Dipodomys merriami*.

GRAFF, Darrell Jay. Some aspects of the carbohydrate metabolism of *Moniliformis dubius* (Acanthocephala).

LEVI, Elaine. The preparation of tumor-specific antisera by the use of artificial immunological tolerance.

TUCKER, Vance Alan. The energetics of the torpor cycle in the California pocket mouse *Perognathus californicus*.

WARREN, James Wolfe. Growth zones in the skeleton of recent and fossil vertebrates.

University of Chicago

BOND, Charlotte Roe. The golden hamster (*Cricetus auratus*): care, breeding, and growth.

BREWER, Nancy Lasher. Sex differentiation of the fetal mouse *in vitro*.

JOLICOEUR, Pierre. The degree of generality of robustness in *Martes americana*.

PIDDINGTON, Ronald. Hormonally-initiated differentiation of the chick embryo oviduct.

PRZYBYLSKI, Ronald Joseph. Cyto differentiation of the pancreatic acinar tissue of the chick.

SMITH, Clare Dodson. The effects of castration and androgen replacement on the reproductive tract of *Phrynosoma cornutum* during the breeding season.

SPIELER, Richard Arno. Genic control of chromosome loss and nondisjunction in *Drosophila melanogaster*.

VON HENTIG, Roland T. A collection of Bornean termites.

WENZEL, Rupert Leon. A monograph on the genus *Margarinotus* Marseul.

University of Cincinnati

DAWSON, John E. D. Effect of sodium tolbutamide on pregnant albino rats and their young.

University of Colorado

QUINN, Barry George. Seasonal plankton studies on a Colorado mountain flowage.

Colorado State University

HIBLER, Charles Phillip. Onchocercidae (Nem-

otoda: Filarioidea) of the American magpie, *Pica pica hudsonia* (Sabine), in northern Colorado.

LEIBY, Paul Dewitt. Taxonomic and biological studies on the nematodes *Amidostomum* (Strongyloidea) and *Epomidiostomum* (Trichostrongyloidea) occurring in the gizzards of waterfowl.

LYONS, Eugene Thomas. Biology of the hookworm, *Uncinaria lucasi* Stiles, 1901, in the northern fur seal, *Callorhinus ursinus* Linn. on the Pribilof Islands, Alaska.

Columbia University

BARR, Harold Jay. Effect of exogenous thymidine on the mitotic cycle. [Microfilming withheld until 1965.]

RYAN, Ann M. Studies on the cross-induction process in *Escherichia coli* K12.

SHAH, Vinodkant C. Autoradiographic studies of the effects of antibiotics, amino acid analogues and nucleases on the synthesis of DNA.

VAN VALEN, Leigh. A study of fluctuating asymmetry.

WACHTEL, Allen W. The ultrastructure of electric organs and its relation to muscle.

WEISBROT, David R. Studies on differences in the genetic architecture of related species of *Drosophila*.

YANAGISAWA, Kaichiro. Studies on the mechanism of abnormal transmission ratios at T locus in the house mouse.

YANAGISAWA, Keiko O. The genetic regulation of beta-galactosidase synthesis in *E. coli*. I. The reaction of repressors under genetic control. II. A repressor not inactivated by inducers.

The University of Connecticut

SWEET, II, Merrill Henry. The biology and ecology of the Rhyparochrominae of New England (Heteroptera: Lygaeidae).

Cornell University

ELLINGTON, John Joseph. Field and laboratory observations on the life history of the onion maggot *Hylemyia antiqua* (Miegn).

FERGUSON, John Carruthers. The physiological mechanisms of nutrient transport in the starfish, *Asterias forbesi*.

HOMAN, Elton Richard. The influence of some environmental factors on the appraisal of experimental housefly control in dairy barns in New York state.

MCKITTRICK, Frances Ann. Evolutionary studies of cockroaches.

ROTHSCHILD, Brian James. The life history of the alewife, *Alosa pseudoharengus* (Wilson), in Cayuga Lake.

STIVEN, Alan Ernest. Experimental studies on the epidemiology of the host-parasite system, hydra and *Hydramoeba hydroxena* (Entz).

University of Delaware

HESS, Paul Warren. Glucose and fructose in the maternal and fetal dogfish *Squalus acanthias* and *Mustelus canis*.

Duke University

COLINVAUX, Paul Alfred. The environment of the Bering land bridge.

DAVIS, Luckett Vanderford. Insects of the herbaceous strata of salt marshes in the Beaufort, North Carolina, area.

DOUGLAS, Donald Sterling. Salt and water metabolism of the Adelie penguin.

HUGHES, Maryanne Robinson. Studies on renal and extrarenal salt excretion in gulls and terns.

KING, Elizabeth Norfleet. The effects of osmotic changes on respiration in four decapod crustacea: a comparison of intact animals, excised tissue and isolated mitochondria.

MURPHY, Ted Daniel. Amphibian populations and movements at a small semi-permanent pond in Orange County, North Carolina.

THOMPSON, John Richard. The bathyalbenthic Caridean shrimps of the southwestern North Atlantic.

The University of Florida

BROOKS, JR., Garnett Ryland. Population ecology of the ground skink, *Lygosoma laterale* (Say).

The Florida State University

DAMIAN, Raymond Traian. An analysis of some *Schistosoma mansoni* antigens, including antigens in common with the mouse host.

MacINNIS, Austin J. Chemical attraction of *Schistosoma mansoni* Miracidia.

University of Georgia

BUSH, Francis Marion. Effects of light and temperature on the annual cycle of fat, the amount of liver carbohydrate, and the lean weight of *Bufo fowleri*.

DAVIS, Robert. Some Georgia Eriophyidae including four new species with special reference to the autecology of *Rhynacus breittlowi*, new species.

HANSON, William Lewis. Speciation in the Trypanosomatidae.

JORDAN, Helen Elaine. Studies on the life history of *Brachycoelium mesorchium* Byrd, 1937 (Trematoda: Brachycoeliinae).

KAHL, JR., Marvin Philip. Food ecology of the wood stork in Florida.

PROVO, Marvin Monroe. The role of energy utilization, habitat selection, temperature and light in the regulation of a *Sigmodon* population.

University of Hawaii

BEARDSLEY, JR., John Wyman. The coccoidea of Micronesia (Homoptera).

JOHANNES, Robert Earl. Uptake and release of phosphorus by representatives of a coastal marine ecosystem.

STEVENSON, JR., Robert A. Life history and behavior of *Dascyllus albisella* Gill, a pomacentrid reef fish.

THOMSON, Donald Arthur. A histological study and bioassay of the toxic stress secretion of the boxfish, *Ostracion lentiginosus*.

WALSH, Gerald Edward. An ecological study of the Heeia mangrove swamp.

Howard University

BOGGS, JR., Nathaniel. The infraciliature of three species in genus *Spirostomum*.

OLIVIERE, James. Studies on the nutrition of two species of the genus *Vorticella* with emphasis on the metal requirements.

SMITH, JR., Sidney Randall. Induction of lens and lentoid bodies in the chick embryo by the mouse optic vesicle.

University of Idaho

METTER, Dean Edward. A morphological and ecological comparison of two populations of *Ascapus truei* Stejneger.

University of Illinois

AL-RADHAWY, Majid Ahmed. Studies on the differentiation of the Golgi apparatus in nerve cells of the chick during embryonic and post-embryonic development.

ANDERSON, John Fredric. Effect of thermal stress on dimorphism of subarctic aedine mosquitoes (Diptera: Culicidae).

DYSART, Margaret Pratt. A study of macronuclear chromatin extrusion in species of the genus *Tetrahymena*, with a review of this and related phenomena occurring in all ciliate protozoa.

MEYER, Ronald Harmon. Field evaluation of *Bacillus thuringiensis* Berliner as a microbial insecticide for use in insect control practices in Illinois apple orchards.

MOYE, William Charles. The effects on some arthropods of large-scale applications of granular insecticides in Iroquois County, Illinois.

ROBBINS, Clyde Elliott. Studies on the taxonomy and distribution of the Gastrotricha of Illinois.

SANFORD, James Walker. Observations on the biology and control of the dusky sap beetle, *Carpophilus lugubris* Murray, infesting sweet corn in Illinois.

STEWART, Thomas Bonner. Environmental factors affecting the survival and development of *Strongyloides ransomi* with special reference to its free-living stages.

WHITTAKER, Frederick Horace. Contributions to our knowledge of the nematode *Rhabditis strongyloides* (Schneider, 1866) Oerley, 1880.

ZIMMERMAN, John Lester. The bioenergetics of the dickcissel, *Spiza americana*.

Indiana University

DeCOSTA, John James. Latitudinal distribution of chydorid Cladocera in the Mississippi Valley, based on their remains in surficial lake sediments.

FRYE, Sara Helen Comley. A study of minute structural changes of chromosomes in *Drosophila*.

GOULDEN, Clyde Edward. The history of the cladoceran fauna of esthwaite water (England) and its limnological significance.

HAYDEN, James Franklin. Subsidiary effects of glucagon. a. Effects on blood pressure. b. Effects on growth in the embryonic and post-embryonic chick.

HENNEN, Sally Hubbard. A cytological and embryological analysis of the nuclear changes occurring in a lethal amphibian hybrid (*Rana sylvatica* ♀ x *Rana pipiens* ♂).

HOBBIE, John Eyres. Limnological cycles and primary productivity of two lakes in the Alaskan Arctic.

LUNGER, Philip duPont. The fine structure of growth zones of the colonial hydroid, *Campanularia*.

MEGARD, Robert Ordell. The biostratigraphic history of Dead Man Lake, Chuska Mountains, New Mexico.

MUELLER, Wayne Paul. The distribution of cladoceran remains in surficial lacustrine sediments from three northern Indiana lakes.

Iowa State University
of Science and Technology

BROOKS, Derl Len. Entomogenous fungi of corn insects in Iowa.

CALENTINE, Robert Leland. The life cycle of *Archigetes iowensis* (Cestoda: Caryophyllidae).

CUNNINGHAM, Virgil Dwayne. Factors that influence hatching in *Diabrotica longicornis* (Say).

FRENCH, JR., Frank Elwood. Biology and morphology of *Demodex canis*.

PASCHALL, Homer Donald. Effects of feeding emulsifiers on reproduction of C57BL/6 mice.

THOMSON, Joan Leigh. Development of integumentary derivatives in the chick embryo as studied by histochemical and grafting techniques.

TONE, Jim Norland. Histochemical effects on liver from C57BL/6 jax mice fed selected *Tweens*.

University of Kansas

BARDACK, David. A revision of fossil and living chirocentrid fishes.

GAUNT, Abbot Stott. Fossorial adaptations in the bank swallow, *Riparia riparia* (Linnaeus).

LAWRENCE, JR., Irvin Emmett. An experimental analysis of comb development in the chicken.

LONG, Charles A. The mammals of Wyoming.

Kansas State University

JANES, Donald Wallace. The reproductive system of the prairie vole, *Microtus ochrogaster*.

KREHBIEL, Eugene Billy. Differentiation of gonads in the bovine embryo.

VATNE, Robert Dahlmeier. Aspects of the biology of *Heterakis gallinarum* (Nematoda) in chickens and their host-parasite relations.

WEATHERLY, Norman Fred. *In vitro* and *-vivo* uptake of carbon-14 labeled alanine and glucose by *Ascaridia galli*, parasitic nematode of chickens.

Lehigh University

MIHURSKY, Joseph Anthony. Fishes of the middle Lenapehittuck (Delaware River) Basin.

Louisiana State University

ABADIE, Stanley H. The immunology and serology of various *Strongyloides* species.

AGARWAL, Ram Autar. *Diatraea saccharalis* (Fabr.) and some related pyralid stem borers in Louisiana.

ATTIAH, Hassan Hamed. Population dynamics of spider mites influenced by DDT.

BERRETT, Delwyn Green. A distributional study of the birds of the Mexican state of Tabasco.

GRAVES, Jerry Brook. Toxicological and metabolic response of the bollworm *Heliothis zea* (Boddie), to DDT.

OLIVER, JR., Abe Douglas. An ecological study of the fall webworm, *Hyphantria cunea* (Drury) in Louisiana.

QAZI, Mahmood Husain. Bioassay and histochemical evaluation of pituitary prolactin in estrus, gestation and pregnancy: hamster.

WILSON, Bobby Horace. Some aspects of the biology, ecology and behavior of horse flies (Diptera: Tabanidae) in Louisiana.

University of Louisville

WILLIAMS, John C. The biology of the silver chub, *Hybopsis storeriana* (Kirtland) in the Ohio River Basin.

University of Maryland

McCOMB, Charles Wight. A revision of the *Cheilonus* subgenus *Microchelonus* in North America north of Mexico (Hymenoptera: Braconidae).

OWENS, Howard Beauchamp. A study of the effect of conservation farming on populations of beneficial and destructive insects.

STOUT, John Frederick. Sound communication during the reproductive behavior of *Notropis analostanus* (Pices: Cyprinidae).

McGill University

CARTER, John Charteris Haig. The hydrography and plankton of Tessiarsuk, a coastal meromictic lake of northern Labrador.

McPHAIL, John Donald. Postglacial dispersal of freshwater fishes in northern North America.

RANDELL, Robert Latham. A study of the male genitalia of the crickets belonging to the subfamily Gryllinae (Orthoptera: Ensifera: Grylloidea) and its relationship to taxonomy.

University of Miami

KHANDKER, Nurul Alam. A program for fisheries development with special reference to the underdeveloped countries.

MANNING, Raymond B. A monograph of the stomatopod crustaceans of the western Atlantic.

The University of Michigan

AL-SAAD, Abdul-amir Majeed. The micro and gross osteology of the largemouth bass, *Micropterus salmoides* (Lacepede), with special reference to the non-cellular bone.

BRANDELL, Bruce Reeves. An investigation of the forearm and hand flexors of *Didelphis marsupialis virginiana* Kerr.

CAREW, Evan Bayne. The control of a contraction cycle by pyrophosphate and other ions in glycerinated muscle fibers.

COHN, Theodore Joel. The systematics of *Rehnia* and *Neobarrettia* (Orthoptera: Tettigoniidae) and a reconstruction of their history.

HALL, James Dane. An ecological study of the chestnut lamprey, *Ichthyomyzon castaneus* Girard, in the Manistee River, Michigan.

HEARD, William H. Some comparative life histories of pill clams (Sphaeriidae: Pisidium).

MARZOLF, George Richard. Substrate relations of the burrowing amphipod *Pontoporeia affinis* Lindstrom.

MISCH, Donald William. The relationship of phosphomonoesterases to histolysis of larval tissues in the flesh-fly, *Sarcophaga bullata* (Parker).

OTERO, Joseph Guillermo. The toxicity of *Schistosoma mansoni* *in vitro*.

RASMUSSEN, David Irvin. Blood group inheritance, polymorphism and inbreeding in natural populations of the deer mouse, *Peromyscus maniculatus*.

Michigan State University

KEVERN, Niles Russell. Primary productivity and energy relationships in artificial streams.

THRONEBERRY, Jimmy B. Studies on the differentiation of hemoglobin in *Rana pipiens*.

University of Minnesota

GREEN, Jonathan Pascal. An analysis of morphological color change in two species of brachyuran crustaceans.

LUKENS, JR., Paul Woolman. Some ethnozoological implications of mammalian faunas from Minnesota archeological sites.

NEILSON, Murray Morris. Pathogenicity and host relationships of a cytoplasmic polyhedrosis virus introduced against the winter moth, *Operophtera brumata* (L.) (Geometridae, Lepidoptera) in Nova Scotia.

SCHMID, William Dale. Some aspects of the water economies of nine species of anuran amphibians.

SCHURR, Karl Max. Some factors affecting oviposition in the European corn borer, *Ostia nubilalis* (hub.).

SEABLOOM, Robert Wallace. Adrenocortical activity in the meadow vole.

Mississippi State University

BANCROFT, Harold Ramsey. Environmental effects on diapause in *Anthonomus grandis* Boh.

University of Missouri

BROWN, Larry Nelson. Ecology and reproduction of *Peromyscus boylii*, *P. leucopus*, and *P. maniculatus* in the Ozark Mountains.

FICKESS, Douglas Ricardo. Seasonal sudanophilic variation in the cottontail (*Sylvilagus floridanus*) adrenal cortex.

LAWRENCE, Addison Lee. Phosphatases of the mucosal epithelium of the small intestine and transport of some sugars across the small intestine of the bullfrog *Rana catesbeiana* (Shaw).

MARSDEN, Halsey Means. Social behavior in the cottontail rabbit.

PEDERSON, Vernon Clayton. Ulcerative enteritis in the cottontail rabbit (*Sylvilagus floridanus*).

Montana State College

GITTINS, Arthur Richard. Revision of the species of Psenini in America north of Mexico (Hymenoptera: Sphedidae).

VAN HORN, Saralee Amy Neumann. The embryogenesis and embryonic variability of *A. elliotti* (Acrididae, Orthoptera).

Montana State University

CHOATE, Thomas Scribner. The biology of the white-tailed ptarmigan (*Lagopus leucurus*) in Glacier Park, Montana.

The University of Nebraska

KANTACK, Benjamin Harrison. The biology and ecology of *Trogoderma glabrum* (Herbst) in stored grains.

YOWELL, Hoyt Monroe. A comparative study of the parasympathetic cranial ganglia of two species of opossum: *Didelphis marsupialis virginiana* (Kerr) and *Trichosurus vulpecula* (Kerr).

University of New Hampshire

DAVIS, John Dunning. A study of the arctic wedge clams, *Mesodesma deauratum* (Turton) and *Mesodesma arctatum* (Conrad) of the northwestern Atlantic.

DETWYLER, Robert. Some aspects of the biology of the seasnail, *Liparis atlanticus* (Jordan and Evermann).

LEAVITT, Wendell William. Influences of legumes on the physiology of mice.

NORMANDEAU, Donald Arthur. The life history of the round whitefish *Prosopium cylindraceum* (Pallas) of Newfound Lake, N. H.

SIMON, Joseph Leslie. Reproduction and larval development of the spionid polychaete *Spio setosa* Verrill.

New York University

ASTERITA, Harvey Louis. Pressure-temperature studies on the hyaline membrane of sea urchin eggs.

NAPOLITANO, Joseph James. Studies on the life history of an amoeboflagellate isolated from New Rochelle soil.

The University of North Carolina at Chapel Hill

ELLER, James Gerald. Seasonal regulation in *Pachydiplax longipennis* (Burmeister) (Odonata: Libellulinae).

North Carolina State of the University of North Carolina at Raleigh

DUCKWORTH, Walter Donald. The genera of Western Hemisphere Stenomidae (Lepidoptera).

North Dakota State University

ONSAGER, Jerome Andrew. Characteristics of eggs and egg-pods of North Dakota Acrididae and studies of sites selected for oviposition.

Northwestern University

HINNI, John Barry. Modified development of the duodenum of chick embryos hypophysectomized by partial decapitation.

The Ohio State University

AUGUSTINE, Mithra Gandham. Studies on host plant selection by the Mexican bean beetle, *Epilachna varivestis* Muls.

BACHOP, William Earl. Feulgen microphotometry of periblast nuclei in the muskellunge embryo (Clupeiformes: Esocidae).

BRUNGS, JR., William Aloysius. The relative distribution of multiple radionuclides in a freshwater pond.

DAWSON, JR., Wallace Douglas. Experimental hybridization between *Peromyscus maniculatus* and *P. polionotus* with special reference to physiological isolation and size inheritance.

HUBSCHMAN, Jerry Henry. The development and function of neurosecretory sites in the eyestalks of larval Palaemonetes (Decapoda: Natantia).

JULYAN, Frederick John. Observations on some aspects of the structure and ultrastructure of the pineal organ in the American brook lamprey, *Lampetra lamottei* (Le Sueur).

KANUNGO, Kalpataru. Oxygen uptake in relation to water balance of a mite in unsaturated air.

KOSZTARAB, Michael. The armored scale insects of Ohio (Homoptera: Coccoidea: Diaspididae).

SECHRIEST, Ralph Earl. The biology of the lesser clover leaf weevil, *Hypera nigrostris* (Fab.) (Coleoptera: Curculionidae) in Ohio.

SNYDER, Donald Benjamin. The effects of endrin on vole (*Microtus pennsylvanicus*) reproduction in bluegrass meadows.

WHITE, Richard Earl. A revision of the genus *Tricorynus* of North America (Coleoptera: Anobiidae).

ZENISEK, Cyril James. A study of the natural history and ecology of the leopard frog, *Rana pipiens* Schreber.

The University of Oklahoma

ESCH, Gerald Wisler. Comparative carbohydrate metabolism of adult and larval *Multiceps serialis*.

LYNN, Robert Thomas. Comparative behavior of the horned lizards, genus *Phrynosoma*, of the United States.

MURPHY, Clifford Elyman. The development of a plankton community in a new impoundment in Wise County, Texas.

Oklahoma State University

COPELAND, Billy Joe. Oxygen relationships in oil refinery effluent holding ponds.

DOUGLAS, Neil Harrison. Evaluation and relative resistance of sixteen species of fish as test animals in toxicity bioassays of petroleum refinery effluents.

GOERTZ, John William. Influence of habitat quality upon density of cotton rat populations.

GOULD, III, William Robert. The suitabilities and relative resistances of twelve species of fish as bioassay animals for oil-refinery effluents.

JONES, Robert Earl. A comparative study of the habitats of the lesser and greater prairie chicken in Oklahoma.

KINZER, Henry Grant. The effects of insect populations on seed production of *Sorghum vulgare* (Pers.).

MARQUARDT, Richard Earl. Ecology of the migrating and wintering flocks of the small white-cheeked geese within the South Central United States.

MOUNT, Gary Arthur. The use of factorial experiments to determine the sensory perception of various bait factors by *Musca domestica* L.

OLIVER, JR., Kelly Hoyet. Casual factors of population variation in the algae of a papermill waste water pond system.

OVERMIRE, Thomas Gordon. The effects of grazing upon habitat utilization of the dickcissel (*Spiza americana*) and Bell's vireo (*Vireo bellii*) in north central Oklahoma.

PARKER, Henry Lee. Natural history and characteristics of *Pimephales vigilax* (Baird and Girard).

PRICE, Richard Graydon. Evaluation of repellents with four species of roaches.

WHITWORTH, Walter Richard. Oxygen requirements of thirteen species of fishes in relation to exercise.

Oregon State University

BRASWELL, JR., Audrey Lee. The ecology of *Lepidurus apus* in northern Utah and some limnological requirements for hatching.

DANFORTH, Charles Garrison. Bopyridian (Crustacea, Isopoda) parasites found in the eastern Pacific of the U. S.

DAVIS, Gerald Evert. Trophic relations of simplified animal communities in laboratory streams.

University of Pennsylvania

DeCARO, Thomas Francis. Some properties of a fatigue factor expressed from stimulated frog gastrocnemius muscles.

FELDHERR, Allene Blizzard. Protein yolk utilization in the *Cecropia* embryo.

GREEN, George Walter. Spontaneous locomotor activity in the blowfly, *Phormia regina* Meig.

STEERS, JR., Edward. A biochemical study of immobilization antigens of *Paramecium aurelia*.

The Pennsylvania State University

CAMPBELL, James Arthur. The littoral phytomacrofauna and benthos of a pond and a portion of a creek in northwest Florida.

FREHN, John Lee. Cellular respiration and phosphorylation during cold exposure in rats and chipmunks.

HARCLERODE, Jack Edgar. The role of the thyroid gland in the acclimation of rats to reduced barometric pressures.

MALLETTE, John Michael. Growth in culture of trypsin dissociated thyroid cells from control and altitude acclimated rats.

MILLER, JR., John Wesley. The effect of barley yellow dwarf virus on the biology of its vector, the English grain aphid, *Macrosiphum graminum* (Kirby).

SPENCER, Selden James. A study of the physical characteristics of nesting sites used by bank swallows.

VANDENBERGH, John Garry. Analysis of the aggressive behavior of starlings as affected by photoperiodic manipulation.

ZIEGLER, Frederick Dixon. Respiration and phosphorylation in liver homogenates from rats exposed to hypoxia and food restriction.

University of Pittsburgh

SHONTZ, Charles Jack. The effects of altitude and latitude on the morphometry, meristics, growth and fecundity of the eastern blacknose dace, *Rhinichthys atratulus atratulus* (Hermann).

Purdue University

GREVE, John Henry. Effects of thyroid and biotin deficiencies on canine demodicosis.

WHITLEY, Larry Stephen. Studies on the biology of Tubificidae.

University of Rhode Island

MISRA, Pyari Mohan. Studies on growth and development of teleost eggs with special reference to deuterium enriched environments.

STAGGERS, Buel Alexander. Glycine-1-C¹⁴ studies on the mechanism of homograft rejection in *Rana pipiens*.

Rutgers - The State University

ADAMS, JR., Walter C. Cholesterol metabolism in rats bearing cystic ovaries.

EBLE, Albert F. The circulatory system of the American oyster, *Crassostrea virginica* Gmelin.

FISHER, Cynthia. The effect of protein nutrition on protein metabolism in the pregnant rat.

FORREST, Helen Frey. Three problems in invertebrate behavior.

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MARTIN, Robert E. Growth and movement of smallmouth buffalo, *Ictiobus bubalus* (Rafinesque), in Watts Bar Reservoir, Tennessee.

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FUNK, William Henry. Growth and control of algae in Deer Creek Reservoir.

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PETERSEN, James J. Bionomics of the mosquito *Aedes nigromaculis* (Ludlow) in Utah.

RABE, III, Frederick W. Effect of fertilization on four alpine lakes in the Uinta Mountains.

RAHMAN, Syed Jamilur. Effects of internally deposited plutonium -239 on the lymphatic tissue of dogs.

Utah State University

ANDERSEN, Ferron Lee. The site of the immune reaction against *Eimeria bovis* in calves and the demonstration of antibodies by immunofluorescence.

JENSEN, Emron Alfred. A morphological and cultural study of trichomonads and other flagellates of the bovine digestive tract.

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WORKMAN, Gar William. The ecology of the Bear Lake littoral zone, Utah-Idaho.

Vanderbilt University

FORD, Floyd Mallory. A taxonomic and ecological study of the epigeic Collembola (Isotomidae) of the central basin of Tennessee.

Washington State University

WATERHOUSE, Joseph Stallard. Biology of the garden symphyid, *Scutigera immaculata* Newport.

ZWICK, Robert Ward. The effects of aeration, protectants, vapor toxicants, and cold hardness to stored grain insects.

Washington University

CHIARODO, Andrew Joseph. The effects of mesothoracic leg disc extirpation on the postembryonic development of the nervous system of the blowfly, *Sarcophaga bullata*.

University of Washington

GOODING, Richard Ulrich. External morphology and classification of marine poecilostome copepods belonging to the families Clausidiidae, Clausiidae, Nereicolodae, Eunicicolodae, Synaptiphiidae, Catiniidae, Anomopsyllidae, and Echiurophilidae.

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MILLER, David Clare. The Hydrophilidae of the Pacific Northwest exclusive of the Elophorinae and the Sphaeridiinae.

SMITH, Lynwood Stephen. Some aspects of peripheral circulation in *Octopus dofleini*.

SRIBHIBHADH, Arporna. Seasonal variations of paralytic shellfish toxicity in the California mussel, *Mytilus californianus* Conrad, and the Pacific oyster, *Crassostrea gigas* (Thunbert), along the Strait of Juan De Fuca and in Willapa Bay.

VERNER, Jared. Aspects of the ecology and evolution of the long-billed marsh wren.

The University of Wisconsin

AVERY, John Arthur. A study of the haemocytes of the grasshopper, *Melanoplus differentialis* (Thomas) (Orthoptera: Acrididae).

BLAZKOVEC, Andrew August. Factors affecting the primary and secondary response to bovine serum albumin in the chicken.

CHALLEY, John Raymond. Adrenal response in chickens infected with the protozoan parasite, *Eimeria tenella*.

DURAI SWAMI, Sundaravaradan. The preparation and biological properties of follicle stimulating hormone from sheep pituitary glands.

FABER, Daniel James. Larval fish from the pelagic region of two Wisconsin lakes.

GOERING, John James. Studies of nitrogen-fixation in natural fresh waters.

HYMER, Wesley Craig. The isolation of rat pituitary granules and the study of their biochemical properties and hormonal activities.

KNOKE, John Keith. Systemic insecticide for the control of insects attacking potatoes.

MCLEOD, Dougald Glenn Ross. The physiology of diapause in the European corn borer (*Ostrinia nubilalis* Hübner).

MUELLER, Helmut Charles. Homing and distance-orientation in bats.

NAGRA, Clarence L. Relation between stress, energy requirements and steroidal hormones in birds.

NUTTING, Ehard Forrest. Hormonal regulation of delayed implantation in the ovariectomized rat.

RADCLIFFE, Edward Bruce. Plant resistance to insect attack in cruciferous crops.

SCHLUETER, Edgar A. Microelectrophoretic studies of serum proteins of chickens infected with *Eimeria tenella*.

WARNOCK, John Edward. The effects of crowding on the survival of meadow voles (*Microtus pennsylvanicus*) deprived of cover and water.

WOODS, Roy. Factors affecting the immune response of chickens.

University of Wyoming

ENDERSON, James Harris. Ecology of the prairie falcon (*Falco mexicanus* Schlegel) in the central Rocky Mountain region.

FINZEL, Jean E. Avian populations of four herbaceous communities at various elevations in southeastern Wyoming.

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University of British Columbia

HATTINGH, Willem Hendrik Jacobus. The nitrogens and phosphorus requirements of microorganisms in activated sludge.

ASTRONOMY

Princeton University

GAUSTAD, John Eldon. The opacity of diffuse cosmic matter and the early stages of star formation.

ANATOMY

University of Notre Dame

KLEMM, William Robert. Protection against x-irradiation by psychotropic drugs and adrenal-pituitary function on rabbit behavior and brain electrical activity.

Medical College of Virginia

MANNING, John Paul. Effects of diethylstilbestrol on B-glucuronidase activity of hamster liver and kidney.

SHERIDAN, Michael Ney. Fine structures of the mammalian adrenal cortex and its homologue in some lower vertebrates.

SUTER, Daniel Blosser. A study of acute changes in rat brain induced by X-irradiation.

BIOGRAPHY

Princeton University

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BIOLOGY-GENETICS

Brown University

AUGUSTINE, John McDonell. Compensatory growth of the exocrine pancreas in the rat.

BOSHIER, Denys Peter. Some analyses of reproductive performance in inbred mice and their progeny.

GUSSIN, Arnold E. S. Lipid metabolism in the Mediterranean meal moth, *Ephestia kuehniella* Zeller, during maintenance, growth and metamorphosis.

SAMIS, Jr., Harvey Voorhees. Studies of the structures of metal complexes present in a non-enzymatic glycine activating system.

SANFORD, Barbara Hendrick. A genetic study of modified susceptibility to tumor transplants in reciprocal resistant backcross hosts.

University of Notre Dame

MESCHER, Sister Alma Louise. A comparative analysis of the morphology and postembryonic development of the salivary glands of *Aedes aegypti* (L.) (Diptera: Culicidae).

Princeton University

DOUGHERTY, William John. Combined histochemical and electron microscopic studies of dividing cells of regenerating rat liver, with special reference to lysosomes.

LEIBO, Stanley Paul. Studies on the effects of subzero temperatures on the unicellular red alga, *Porphyridium cruentum*.

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SPEER, Henry Lee. Studies on the physiology and biochemistry of the red alga *Porphyridium cruentum* Naegeli.

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University of British Columbia

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TUSKO, Frank Ferenc. A study of variability in certain Douglas-fir populations in British Columbia.

University of Notre Dame

MARTIN, Sister M. Celine. An ecological life history of *Geranium maculatum*.

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University of British Columbia

GILSON, Denis Frank Robert. Nuclear magnetic resonance and infra-red spectroscopic studies on clathrates and weak charge transfer complexes.

McANDREW, Robert Thomson. Carbon monoxide reduction of aqueous silver acetate.

MIRHEJ, Michael Edward. Studies on dissolved molecular oxygen in pure and sea water.

Brown University

DANKLEFF, Mary Floog. Solvent effects on nucleophilic displacement on oxygen: the oxidation of thioxane by hydrogen peroxide.

NEALEY, Richard Howard. A study of the effect of conformation on the dipole moments of some rigid carbocyclic alcohols.

STEVENSON, Kenneth Knox. Synthesis, structure and reactions of 1, 2-dihydro-2-naphthol: a study of base catalyzed epoxide rearrangements.

Princeton University

SANE, Krishna Vishnu. A study of isotropic and anisotropic hyperfine effects in the electron spin resonance spectra of 2,2-diphenyl-1-picrylhydrazyl and other closely related organic free radicals.

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KNIGHT, William Stetson. Thermodynamics of aqueous solutions of alcohols and p-dioxane.

Biological

University of Notre Dame

PUSHPATHADAM, Joseph J. The erythropoietic factors in anemic rabbit plasma.

Inorganic

University of British Columbia

CAVELL, Ronald George. The fluorides of vanadium.

SADANA, Yoginder Nath. Chromium tetrafluoride and related compounds.

University of Notre Dame

KLEBACHER, Frederick Roy. Infrared spectra and solid state reactions of aryl amine-metal halide complexes.

PENNARTZ, Phillip L. Redistribution reactions among alkylalkoxyboranes and trialkoxyboranes.

PETRA, Sister Mary Rosaria. Infrared spectra of cyanate complexes and solid state reactions of some copper (II) coordination compounds.

SCHAFER, Sister Michael. Absorption spectra and electric moments of coordination complexes of cobalt (II).

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Princeton University

PROSPERO, Joseph Michael. Studies of radioactive decay in the region of deformed nuclei.

Organic

University of British Columbia

BROWN, Alistair Chalmers Ramsay. A kinetic study of the addition of the ethyl radical to conjugated dienes and related compounds.

CSIZMADIA, Imre Gyula. Synthesis and photolysis of aromatic nitrate esters.

LEE, Donald Garry. Mechanism of the chromic acid oxidation of alcohols.

O'DONNELL, Joseph Patrick. The H-function and the acidity of aromatic amines.

Brown University

IACONA, Robert Nicholas. The reactions of dimethyl sulfoxide with α -bromo-ketosteroids.

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University of Notre Dame

BRETT, Thomas Joseph. The epimerization of substituted cyclohexanols.

HOFMAN, Emil Thomas. Some novel chelating polymers. I. Model compounds.

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ARAKAWA, Tetsutaro. Comparison of radiolysis, photolysis and luminescence quenching of some triphenyl metal compounds in benzene and cyclohexane.

TOMA, Sam Z. Hydrogen formation and charge transfer processes in the radiolysis of hydrocarbons.

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RAYMOND, Richard Delos. Interaction between discrimination, interregional migration and regional economic development.

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Princeton University

HEITMANN, George Joseph. An econometric study of the regional growth of the footwear industry.

SINGER, Eugene Martin. The concept of economic leverage in antitrust.

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Princeton University

ASCH, Peter. Industry structure and performance.

HOLLANDER, Samuel. The sources of increased efficiency: a case-study of Du Pont rayon-manufacturing plants.

WILLIAMSON, John Harold. Patent licensing and royalty terms.

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Brown University

PETERSEN, Harold Allan. Risk and the capital structure of the firm.

History

Princeton University

DEBS, Richard Abraham. The law of property in Egypt: Islamic law and civil code.

Theory

University of Notre Dame

MASSARO, Vincent Gerard. Divergent views of Marx's increasing misery doctrine.

Princeton University

MELLON, Walter Giles. An approach to a general theory of priorities: an outline of problems and methods.

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General

University of Notre Dame

BAER, Rev. Campion Robert. The development of accreditation in American Catholic seminaries, 1890-1961.

Administration

University of Notre Dame

MEYERS, Rev. William Frederick. The role of the lay teacher in Catholic education.

History

University of Notre Dame

MACKEY, Rev. John. The passing of the New Zealand Education Act, 1877. The genesis of a state school system in the nineteenth century.

WAGENER, Sister M. Gabrieline. A study of Catholic opinion on federal aid to education, 1870-1945.

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University of California, Berkeley

GARZON, Dionisio Padul. An analysis of the problems of teaching elementary science in the Philippine public schools.

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Brown University

AKCOGLU, Mustafa Agah. Diffraction by composite cylinders.

WALLACE, JR., James. Uniform second-order flow over three-dimensional bodies.

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BRZUSTOWSKI, Thomas Anthony. Vapor-phase diffusion flames in the combustion of magnesium and aluminum.

COHEN, Ira Myron. Theory of spherical electrostatic probes in a slightly ionized, collision-dominated gas, review and extension.

EVANS, Norman Arthur. Experimental laminar heat transfer from an oscillating flat plate.

HAGERUP, Henrik Johan. Linearized viscous flow near surface slope discontinuities.

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SHIM, Joosup. Temperature and pressure effects on the diffusion coefficient of methane in the liquid phase of n-hexane.

Princeton University

ANDERSON, James Bernhard. The sticking probability of oxygen on single crystals of germanium.

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ANGUS, Richard Myers. Characterization of multiple variable process systems from random inputs.

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COLLINS, Morton. Application of boundary layer theory to laminar flow of pseudoplastic fluids.

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KIM, Young Gul. Studies of turbulent mixing by light-scattering method.

NOWAK, Edwin James. Probability of decomposition of methane molecules on silicon.

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JULIEN, Kenneth Stephen. Methods of investigating phenomena arising from non-linearities in power systems.

KASVAND, Tonis. Application of eigenvalue techniques in the analysis, compensation and synthesis of linear multivariable feedback control systems.

Princeton University

EICHELBERGER, Edward Baxter. Sequential circuit synthesis using hazards and delays.

POAGE, James Frederick. The derivation of optimum tests for logic circuits.

SCHORR, Herbert. Towards the automatic analysis and synthesis of digital systems.

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GALT, James Colquhoun. The deformation mechanisms in branched polyethylene melts.

HAMEL, Bernard Basil. A study of some mass transfer problems according to the kinetic theory of gases.

SMITH, Craig Gary. Some computer experiments with a one-dimensional plasma model.

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DEMIR, Halil Halit. Analysis of cylindrical shells subjected to rings of force.

FOSDICK, Roger Lee. Some results in the theory of small elastic deformations superposed on large elastic deformations.

FINE ARTS

Princeton University

BELZ, Carl Irvin. The role of Man Ray in the dada and surrealist movements.

HAWES, JR., Louis. John Constable's writings on art.

McGRATH, Robert Leon. The romance of the Maccabees in mediaeval art and literature.

TURNURE, James Harvey. Ambrogio Figino: a study in eclectic mannerism. (2 vol.)

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ANDERSON, JR., Alfred Titus. A contribution to the mineralogy and petrology of the Brule Lake Anorthosite Massif, Quebec.

BARNES, William Charles. Geology of the northeast Whitefish Range, northwest Montana.

CARD, Kenneth Darius Huycke. Geology of the Agnew Lake area, Ontario: a study in Pre-Cambrian stratigraphy, structure and metamorphism.

CHASE, Richard Lionel St. Lucian. The Imataca complex, the Panamo amphibolite and the Guri trondhjemite: Pre-Cambrian rocks of the Adjuntas-Panamo quadrangle, State of Bolivar, Venezuela.

HINNERS, Noel William. The solubility of sphalerite in aqueous solutions at 80°C.

MOORES, Eldridge Morton. Geology of the Currant area, Nye County, Nevada.

PALMER, Henry Currie. Geology of the Moncion-Jarabacoa area, Dominican Republic.

PICARD, Meredith Dane. Paleomagnetic correlation of units within the Chugwater formation, west-central Wyoming.

SAWKINS, Frederick John. Lead-zinc ore deposition in the light of fluid inclusion studies, Providencia, Zacatecas, Mexico.

SMITH, Alan Gilbert. Structure and stratigraphy of the northwest Whitefish Range, Lincoln County, Montana.

HISTORY**General**

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KAPLOW, Jeffry Jacob. The social structure of Elbeuf (Seine-Maritime) during the revolutionary period, 1770-1815.

LUCAS, Allen Paul. Essays in the margin of Blackstone's Commentaries.

SAVAGE, David William. The Irish question in British politics, 1914-1961.

Ancient

Princeton University

THOMPSON, Wesley Eugene. The Athenian gold and bronze coinages of the Dekeleian war.

Archaeology

Brown University

PIERCE, Richard Holton. Three demotic papyri in the Brooklyn Museum.

Medieval

Brown University

GOLDSTEIN, Bernard Raphael. The commentary of Ibn al-Muthanná to the astronomical tables of al-Khwárizmí.

Modern

Brown University

WEAVER, Earl James. John Dewey: a spokesman for progressive liberalism.

University of Notre Dame

KESSLER, Sister M. Verona. The effects of the laic laws of 1901 and 1904 on the Benedictines in France.

Princeton University

ABOU-EL-HAJ, Rifa'at Ali. The Reisülküttab and Ottoman diplomacy at Karlowitz.

DOWNEY, Matthew Thomas. The rebirth of reform: a study of liberal reform movements, 1865-1872.

GILLETTE, J. William. The power of the ballot: the politics of passage and ratification of the fifteenth amendment.

HAUBEN, Paul Jacob. Spanish Protestant refugees in western Europe during the second part of the sixteenth century.

MONTER, JR., Edward William. The government of Geneva, 1536-1605.

ROSS, Steven Thomas. The war of the second coalition.

LANGUAGE AND LITERATURE**General**

Brown University

RODGERS, Catherine. Time in the narrative of *The Faerie Queene*.

University of Notre Dame

NANCE, Brother William L. A study of the thematic unity in the fiction of Katherine Anne Porter.

NOVELLI, Cornelius. Sir Gowther.

Classical

Princeton University

AMBROSE, Zuell Philip. The Homeric and early epic telos.

LENAGHAN, John O'Neill. A commentary on Cicero's oration: *De haruspicum responso*.

PORTER, David Hugh. Book IV of Horace's *Odes*: an interpretive study.

TARÁN, Leonardo. *Parmenides*: a text with translation, commentary, and critical essays.

TRACY, Theodore James. Physiological theory and the doctrine of the mean in Plato and Aristotle.

Linguistics

Brown University

VAN GINNEKEN, Eva Rotter. Antoine Furetière's *Nouvelle allegorique*: a critical edition.

Princeton University

ISANI, Mukhtar Ali. The Oriental tale in America through 1865, a study in American fiction.

Modern

Brown University

BRIDGES, William Emery. The family circle in American verse: the rise and fall of an image.

D'AVANZO, Mario Louis. Recurrent metaphors for poetry in John Keats's works.

GARNER, Stanton Berry. Harold Frederic; the major works.

PÉREZ De La DEHESA, Rafael. El pensamiento de Costa y su influencia en la generación del 98. (Spanish text)

ROBILLARD, Richard Harold. The rhetoric of Wallace Stevens: He that of repetition is most master.

RODRIGUEZ, Alfred. Introduction to the *Episodios Nacionales* of Benito Pérez Galdós.

University of Notre Dame

DUBUQUE, Remi Gerard. Samuel Johnson's *Idlers*: a study of satire, humor, and irony.

FADDOUL, Brother Germain Anthony. The harmonizing of faith and reason in Brownson's pre-Catholic experience.

LALLY, Sister Mary Aquin. A comparative study of five plays on the Becket story by Tennyson, Binyon, Eliot, Anouilh, and Fry.

LAWLESS, Sister Mary Kyran. The ceramics of Wallace Stevens: aspects of imagery and theme.

Princeton University

BULGIN, Randolph McGuire. Anthony Trollope's *The way we live now*: a study of its historical background and critical significance.

JOSEPHS, Herbert. Diderot and the dialogue of gesture and language.

LOOMIS, JR., Chauncey Chester. Thackeray, the satirist.

MARTIN, Nicholas. *Thèmes sportifs dans le roman français de l'entre-deux-guerres*.

REDWINE, JR., James Daniel. Ben Jonson's criticism of the drama.

SILVER, Philip Warnock. *Et in Arcadia ego*: a study of the poetry of Luis Cernuda.

SPARKS, Marion Kimberly. A geometry of time: a study of Hermann Broch's prose imagery.

TENNYSON, Georg Bernhard. Sartor called Resartus: a study of the genesis, style, and structure of Thomas Carlyle's *Sartor resartus*.

TREANOR, JR., Paul Arthur. Goethe's Mignon poems; their literary interpretation and the musical illustration of their poetic devices.

WINKLER, Julius Sherman. Johann Christian Günther: a study in contrasts and controversy.

MATHEMATICS

Brown University

BREUER, Shlomo. Some general results in linear viscoelasticity.

ROBERTS, Howard Mahlon. On the dual Pontrjagin classes of a manifold.

SHEN, Mei-Chang. Problems in the theory of surf.

- SUN, Tze-Chien. A central limit theorem for non-linear functions of a normal stationary process.
- TYNDALL, William Felker. A duality theorem for a class of continuous linear programming problems.

University of Notre Dame

- DERWENT, John Edwin. On the realization of the Morse inequalities as equalities.
- LAPPAN, Peter Ambrose. Some sequential properties of normal and non-normal functions with applications to automorphic functions.
- MICHAELS, Sister Elizabeth Louise. A study of simple groups of even order.

Princeton University

- ASH, Michael Edward. The Neumann problem on strongly pseudoconvex complex multifoliate manifolds.
- BAUM, Paul Frank. Cohomology of homogeneous spaces.
- BUMBY, Richard Thomas. On the foundations of diophantine approximation.
- BUNGART, Lutz. Holomorphic functions with values in locally convex spaces and applications to integral formulas.
- HARTSHORNE, Robert Cope. Connectedness of the Hilbert scheme.
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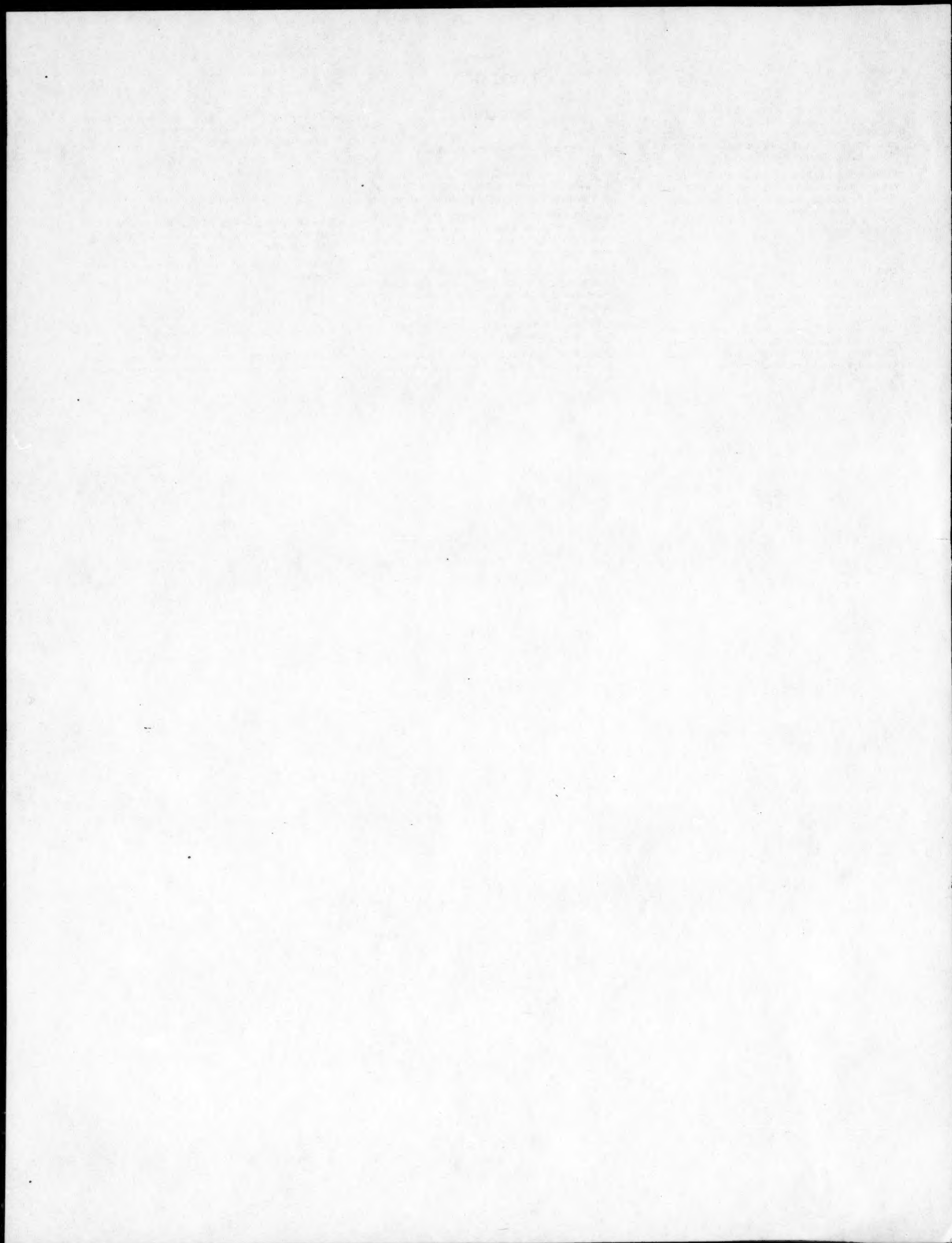
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